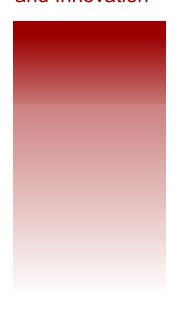


Industrial Hygiene and Safety Technology, Inc.

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Report of Comprehensive AHERA Asbestos Survey

Prepared for: The Louis Berger Group, Inc. 199 Water Street, 23rd Floor New York, New York 10038

Project No. JG500P5

Building Surveyed: Oak Hollow Office 5901 Boca Raton Blvd. Fort Worth, Texas 76112

Report Date: December 10, 2007

Prepared By:

Industrial Hygiene and Safety Technology, Inc. 2235 Keller Way Carrollton, Texas 75006

Tracy K. Bramlett, CIH, CSP TDSHS Licensed Asbestos Consultant (10-5040)

Group K. Bremlitt

Comprehensive Asbestos Survey

Oak Hollow Office 5901 Boca Raton Blvd Ft. Worth, TX 76112

(Oak Hollow Office)

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1.0 Introduction

This document is a report of a Comprehensive Asbestos Survey performed by Industrial Hygiene and Safety Technology, Inc.(IHST). IHST is licensed by the Texas Department of State Health Services (DSHS), formerly the Texas Department of Health, as an Asbestos Consultant Agency (DSHS License #10-0145. Figure 1 provides a description of the assessment described by this report.

Figure 1. Comprehensive Asbestos Survey Profile

Client Name: The Louis Berger Group, Inc.

Facility/Campus: Oak Hollow Office
Building: Oak Hollow Office

5901 Boca Raton Blvd Ft. Worth, TX 76112

Survey Date(s): 11/1/2007

Inspector(s): Tracy Bramlett - DSHS Asbestos Inspector License #10-5040

2.0 Purpose and Scope

The purpose of this project was to locate, identify, and assess the condition of asbestos containing material (ACM) present at the subject building, and to develop recommendations based on existing and potential asbestos related hazards. The following scope of work was used during the asbestos assessment for the subject property:

- A. Collecting and analyzing bulk samples of suspected asbestos-containing materials.
- B. Quantification of the suspected asbestos-containing material.
- C. Approximate costs of abatement, to include abatement specifications, contractor selection, and on-site management during remediation activities.
- D. Provide an approximate time schedule for abatement procedures.
- E. Make recommendations based on survey data collected to implement an Operation and Maintenance (O&M) Program or abatement procedures.
- F. Preparing a report discussing the findings and remedial recommendations.

3.0 Report Organization

This report is divided into sections which discuss the review of available documentation, field investigation, laboratory analysis, hazard assessments, and recommendations. Illustrations, such as tables and figures follow the text. Other supporting documentation, such as laboratory reports are also included.

4.0 Field Investigation

The survey was conducted to determine the amount of asbestos-containing materials present in the subject building. The survey included an observation of accessible areas and unusual conditions; and bulk sampling of suspected asbestos-containing materials. Bulk samples were collected of suspect materials and analyzed by Polarized Light Microscopy (PLM) with dispersion staining, in accordance with the Environmental Protection Agency's (EPA) Method for the Determination of Asbestos in Bulk Insulation Samples (Method 600/R-93/116). Percentage estimates are based on the analyst's best

The survey was designed to identify the presence of both friable and non-friable asbestos- containing materials present in the surveyed area. Friable means that the material, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure. Building materials suspected of containing asbestos were grouped into "Homogeneous" sampling areas. The homogeneous areas were defined based on uniform texture, color, and appearance. Additionally, homogeneous areas were further defined based on building construction date(s). Each of the items sampled were classified into one of three categories:

- 1.) Surfacing Material: A surfacing material is a building material which has been applied to a surface (i.e., walls or ceilings) or structural members. Examples of surfacing materials which may contain asbestos are: spray-applied fireproofing, spray-applied acoustical texture, and trowel-applied textured ceilings and walls.
- 2.) Thermal System Insulation: All types of insulation used on a building's mechanical system are classified into the category of thermal system insulation. Examples of thermal system materials which may contain asbestos are: boilers and related piping, or duct insulation.
- 3.) Miscellaneous: All remaining materials which do not fall into the two above categories are placed in the miscellaneous category. Examples of miscellaneous materials which may contain asbestos are: lay-in ceiling tile, floor tile, mastic adhesives and roofing felt.

An assessment was conducted for each building material sampled. The physical assessment consists of evaluating the condition of the suspect material and the potential for future disturbance. Recommendations made for a building material which contains asbestos are based on the assessments made by the inspector during the survey. The data developed during the asbestos survey is presented in the following sections of this report.

Table 1 contains the Summary of Bulk Sample Analysis and Assessment and Table 2 contains the Cost Estimate Summary. Both tables present specific locations, results of additional asbestos analysis, time schedules, and quantities of asbestos. These cost estimates are based on IHST's experience and commercial estimates used by local abatement contractors. However, it should be noted that the cost estimates are not based on a written set of specifications or a confirmed scope of work, which can affect the final contract cost.

5.0 Sampling

Sampling during the field investigation included the collection of bulk samples of suspected asbestos containing materials, as listed in Table 1., Summary of Bulk Sample Analysis and Assessment. After sample recovery, samples were placed in secure containers, and the sampling vicinity was cleaned and sealed. Appropriate chain-of-custody protocols were initiated at that time to track handling of bulk samples.

5.1 Laboratory Analysis

The samples were transported to and analyzed by the analytical laboratory specified in Figure 2., a successful participant in the Department of Commerce, National Institute of Standards and Technology's (NIST) National Voluntary Laboratory Accreditation Program and licensed by the Texas Department of State Health Services (DSHS), formerly the Texas Department of Health. Ten percent (10%) of the bulk samples were reanalyzed independently as part of the quality assurance and quality control programs.

Figure 2. Bulk Sample Laboratory Profile

Laboratory Name: EMSL Analytical

DSHS License Number: #10872

NVLAP Lab ID: #101048-0 **Expires:** 4/1/2008

5.2 Analytical Methods

Bulk samples were analyzed by Polarized Light Microscopy (PLM). This technique characterizes the materials refractive indices, fiber morphology, birefringence, extinction angle, sign of elongation, and dispersion staining colors to detect asbestos. Percentage estimates are based on approximate area compositions under a stereo-microscope.

5.3 Bulk Sample Results

The results of the sample analysis are presented in Table 1, and the laboratory analysis report is included as Appendix B.

Figure 3. Materials with Asbestos Detected at 1% or Greater

Mat'l Type	Description	Location
■ Sheetrock	Popcorn Ceiling Texture	SE Office, Women's Restroom, Hall by Kitchen, Upstairs
■ Sheetrock	Sheetrock Joint Compound	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs
■ Flashing	Flashing	Roof by fireplace

Figure 4. Materials with NO Asbestos Detected (Pursuant to EPA and DSHS Definition)

Mat'l Type	Description	Location
■ Sheetrock	Wall Texture	N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall
Flooring Matls	Peel and Stick Flooring (Wood Grain) and Mastic (Brown)	Entry, SE Office
Flooring Matls	Peel and Stick Flooring (White/Blue Pattern) and Mastic (Brown)	West Storage Office, Kitchen
Flooring Matls	12" x 12" Floor Tile (Grey) and Mastic (Yellow) and (Brown)	Kitchen
Ceramic Matls	Grout (White) (Under Ceramic Tile)	Great Room
Brick	Fire Brick	Furnace
■ Mastic	Mastic (Black)	Florescent Lights
Caulking	Caulk	Exterior Windows

Asbestos is an airborne hazard. A hazard assessment refers to the process by which we evaluate a material's potential to release fibers into the air. Fibers may be released spontaneously as part of the aging process, or as a result of sudden impact, vibration, air movement, or localized deterioration. Assessing a material's potential for fiber release, and hence its associated hazard, is based upon evaluating the material's condition and potential for further disturbance, damage, or deterioration.

6.1 Hazard Assessment Rankings

Any material identified as asbestos containing that exhibits damage, should be considered a hazard to anyone who works in the area. Typically, damage is classified as minor or significant. Minor damage is characterized by small cuts, tears, scuffs, small openings, or other limited disturbance to asbestos containing materials. Areas with minor damage represent varying degrees of hazards from slight to high depending on:

- * The nature of the damage;
- * Proximity to disturbers, such as airstreams;
- * Location with respect to building occupants;
- * Activity in the immediate area; and
- * Frequency of maintenance in the area.

Significant damage is characterized by large openings, visible flaking, loose particles, and debris on surfaces below the material. Asbestos containing materials which exhibit significant damage are either high or critical hazards, depending upon accessibility. High hazards exist where significantly damaged materials are generally inaccessible; however, where significant damage is accessible, or in the vicinity of building occupants, there is a critical hazard. The recommended action for addressing asbestos related hazards depends upon the degree of hazard. For example:

- * An immediate hazard or critical assessment describes a situation in which the material is exposed and friable, accessible to personnel, and is disturbed releasing fibers in the air. In this situation, immediate action should be taken. At a minimum, the area should be isolated and access restricted.
- * A high assessment describes a situation in which the material is in poor condition, exposed and friable, with a potential for disturbance. In this case, interim controls should be instituted, and the material should be removed when practical. Repairs should be made to the ACM if abatement is not scheduled.
- * A medium or moderate assessment describes a situation in which a combination of the determining factors vary, such as a material that is in good condition but has a high asbestos content and is generally accessible. In situations like this, abatement can be scheduled with future building renovation or maintenance.
- * A low or slight assessment describes a situation in which the material is in good condition and has a low potential for disturbance, damage, or deterioration. In this situation, an O&M program is usually all that is needed.

In general, those areas that are classified as critical or high damage should be abated. These are areas where a high probability of exposure could occur. Moderately damaged areas would require an Operations and Maintenance (O&M) Program to be instituted. In addition, these areas should be considered for abatement, or at the very least repaired.

6.2 Asbestos-Containing Material Assessments

Figure 5 provides a summary of the asbestos identified during the survey, along with a hazard assessment for each type and condition of asbestos-containing material.

Figure 5. Hazard Assessments for Asbestos-Containing Materials

Sheetrock Wall or Ceiling Covering

Condition: Good, Friability: NF II, Disturbance Potential: Low

Sheetrock wall and ceiling covering in good condition presents a low potential health hazard to building occupants due to its observed good condition and intact binding matrices. Prior to building demolition, renovation or work activities that would disturb these materials, removal must be performed by a properly trained and licensed abatement contractor.

The preceding hazard assessment applies to the asbestos-containing materials listed below:

Area Ref#	Homogeneous Area Description	Quantity	Location
■ 02	Popcorn Ceiling Texture	2200 s.f.	SE Office, Women's Restroom, Hall by Kitchen, Upstairs
■ 03	Sheetrock Joint Compound	5700 s.f.	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs

Waterproofing Material

Condition: Good, Friability: NF II, Disturbance Potential: Low

The flashing is in good condition presents a low potential health hazard to building occupants due to its observed good condition and intact binding matrices.

Currently, National Emission Standards for Hazard Air Pollutants (NESHAP) regulations allow Category II non-friable asbestos flashing in good condition, to be left in place during structural building demolition. Buildings subject to NESHAP regulations, require that wet demolition work be conducted with no visible emissions, and the presence of a "Competent Person" trained under the provisions of NESHAP to supervise the demolition work.

The asbestos-containing materials should be placed in a management program and monitored until renovation or demolition activity occurs.

The preceding hazard assessment applies to the asbestos-containing materials listed below:

Area Ref#	Homogeneous Area Description	Quantity	Location
■ 11	Flashing	6 l.f.	Roof by fireplace

In the event other building materials are discovered in addition to the materials sampled in this survey, those building materials should be presumed to contain asbestos and treated as such until proven otherwise by PLM laboratory analysis.

7.1 Response Actions

Report preparation

This inspection conforms to the ASTM Designation: E2356-04e1, Standard Practice for Comprehensive Building Asbestos Surveys. In accordance with Section 6.1.5.2, PLM analysis of non-friable organically bound (NOB) materials which were reported as having no asbestos or less than 1%, the samples were reanalyzed by quantitative transmission electron microscopy with gravimetric reduction. The samples were analyzed by TEM on December 7, 2007. The results of the TEM analysis indicate that all of the NOB materials identified in the building were less than 1% asbestos. The results of the TEM analysis are listed in Appendix E of this report.

In addition, the survey was performed in accordance with the AHERA regulations Part 763.80 -.99.

7.2 Explanation of Response Ratings

Table 1 includes a response rating based on factors such as friability, accessibility, potential for disturbance, etc. Definitions for the response ratings are listed below:

- 0 = Material does not contain detectable amounts of asbestos and requires no asbestos-related abatement action.
- 1 = Material contains asbestos, was non-friable, and requires no abatement action unless sanded, abraded, drilled or otherwise disturbed.
- 2 = Material contains asbestos and was friable. Damage was not observed; no immediate abatement action is required.
- 3 = Material contains asbestos, was friable, and shows signs of localized damage with a potential for disturbance.
- 4 = Material contains friable asbestos and was significantly damaged.

8.0 Qualifications

Industrial Hygiene and Safety Technology, Inc. has attempted to observe the existing conditions within the aforementioned building utilizing generally accepted procedures. Regardless of the thoroughness of a survey, the possibility exists that some areas containing asbestos were overlooked, inaccessible or different from those at specific locations. Furthermore, renovation and/or construction may reveal altered conditions.

This report describes only the conditions present at the time of the survey, in the areas surveyed. The recommendations presented apply to the conditions that were observed during the survey. IHST policies are to not perform destructive sampling unless previously authorized by the client. Therefore, IHST does not perform core sampling of roofing materials unless previously authorized and accompanied by the owner and/or his representative. Other conditions may exist in unsurveyed or inaccessible areas such as behind walls and above permanent ceilings. In addition, the conditions of asbestos-containing materials may change gradually or suddenly depending upon use, maintenance or accident. As a result, the recommendations presented should be periodically reviewed and updated.

The quantity estimates presented in this report were based upon observations during the survey as well as information from building plans provided by the owner. While it is believed that the estimated quantities are reasonable, unanticipated conditions could be present in inaccessible or unsurveyed areas. Industrial Hygiene & Safety Technology, Inc. do not warrant or guarantee the quantity estimates. The use of such estimates shall be at the user's own risk and shall constitute a release and agreement to defend and indemnify Industrial Hygiene & Safety Technology, Inc. from and against any liability.

If you have any questions or comments regarding the content of this report, I would be glad to discuss them at your convenience.

Sincerely,

Analy K. Bramlett

Tracy Bramlett - DSHS Asbestos Inspector License #10-5040

Tracy K. Bramlett

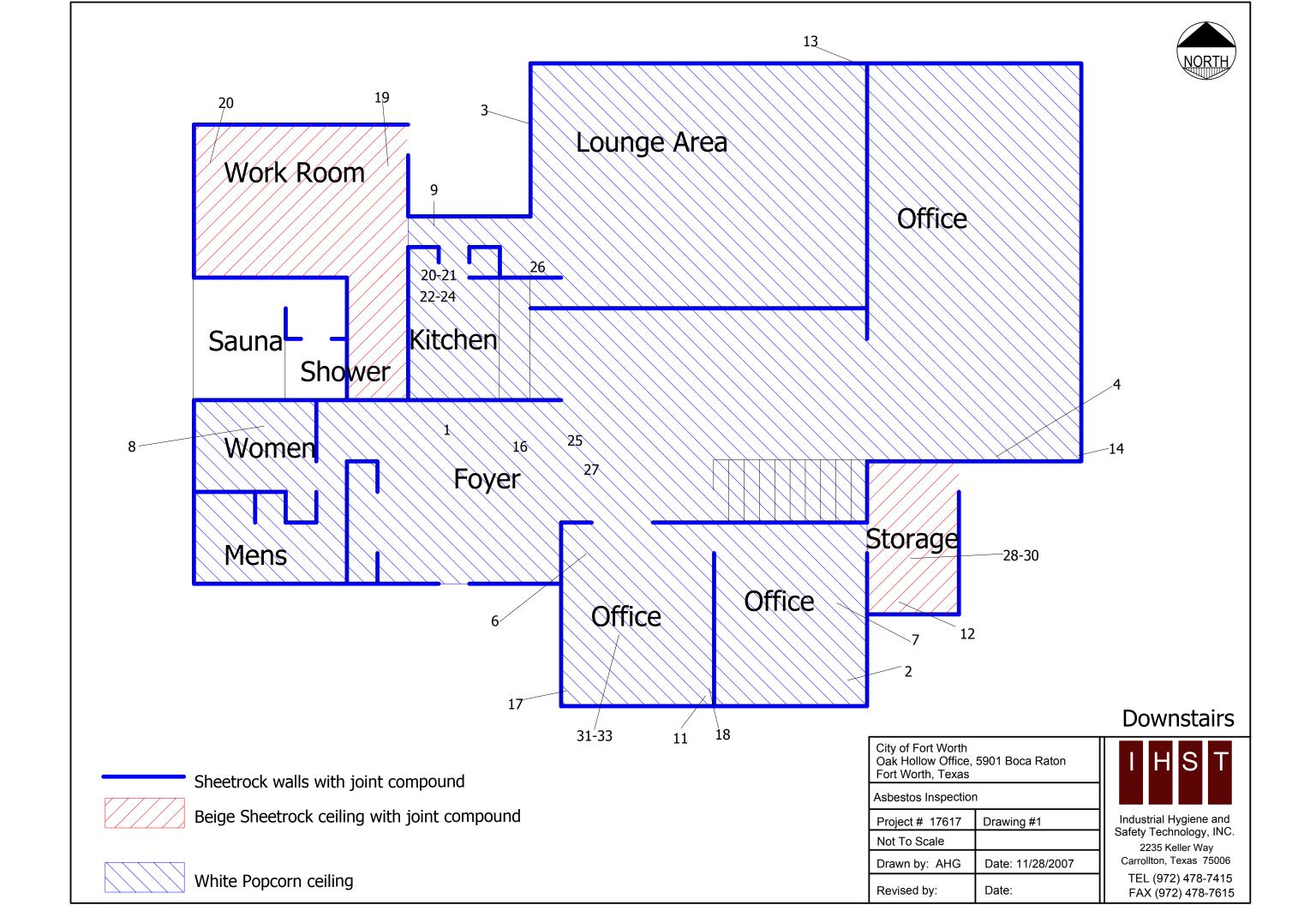
President

DSHS Individual Asbestos Consultant License #10-5040

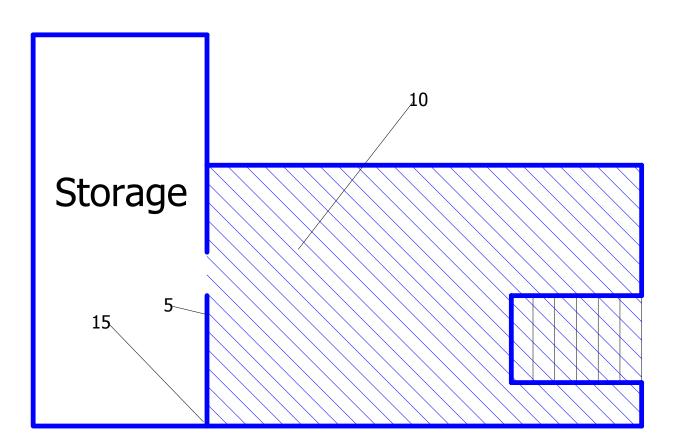
Group K. Bremlitt

Appendix:

Appendix A: Site Drawings





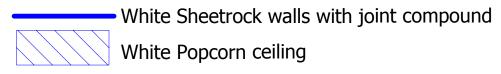


Upstairs

City of Fort Worth Oak Hollow Office, 5901 Boca Raton Fort Worth, Texas					
Asbestos Inspectio	n				
Project # 17617	Drawing #2				
Not To Scale					
Drawn by: AHG	Date: 11/28/07				
Revised by:	Date:				



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Appendix:

Appendix B: PLM Lab Results



EMSL Analytical, Inc.

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Attn: Seth Schultz

The Louis Berger Group, Inc. 199 Water Street, 23rd Floor

New York, NY 10038

Customer ID:

LOUI56

Customer PO:

JG500P5

Received:

11/05/07 9:10 AM

EMSL Order:

040727570

Project: AACM PHASE 3 FT WORTH

Phone: (212) 612-7900

EMSL Proj:

AACM PHASE 3 FORT WORTH

Analysis Date:

11/10/2007

Report Date:

12/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

		<u>Non-Asbestos</u>			<u>Asbestos</u>	
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Type
5906-1 WALL TEXTURE 040727570-0001	N. WALL ENTRY	White Non-Fibrous			100% Non-fibrous (other)	None Detected
		Homogeneous				
5906-1 JT. COMPOUND 040727570-0001A	N. WALL ENTRY	White Non-Fibrous			100% Non-fibrous (other)	None Detected
		Homogeneous				
5906-1 DRYWALL 040727570-0001B	N. WALL ENTRY	Brown/White Fibrous Heterogeneous	30%	Cellulose	70% Non-fibrous (other)	None Detected
5906-2 WALL TEXTURE 040727570-0002	SE OFFICE	White Non-Fibrous			100% Non-fibrous (other)	None Detected
040727370-0002		Homogeneous				
5906-2 JT. COMPOUND 040727570-0002A	SE OFFICE	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
						Mara Batastad
5906-2 DRYWALL 040727570-0002B	SE OFFICE	Brown/White Fibrous Heterogeneous	20%	Cellulose	80% Non-fibrous (other)	None Detected
5906-3 WALL TEXTURE 040727570-0003	W.WALL GREAT RM	White Non-Fibrous			100% Non-fibrous (other)	None Detected
040/27570-0003		Homogeneous			•	

Analyst(s)

Delores Beard (22) Jerry Cherian (41)

Stephen Siegel, CIH, Laboratory Manager or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Sample's received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the



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11/10/2007

Report Date:

12/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

				Non-Asi	<u>Asbestos</u>	
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Type
5906-3 JT. COMPOUND 040727570-0003A	W.WALL GREAT RM	White Non-Fibrous			100% Non-fibrous (other)	None Detected
		Homogeneous				
5906-3 DRYWALL 040727570-0003B	W.WALL GREAT RM	Brown/White Fibrous Heterogeneous	30%	Cellulose	70% Non-fibrous (other)	None Detected
5906-4 WALL TEXTURE 040727570-0004	N.E. OFFICE	White Non-Fibrous			100% Non-fibrous (other)	None Detected
		Homogeneous				
5906-4 JT. COMPOUND 040727570-0004A	N.E. OFFICE	White Non-Fibrous			100% Non-fibrous (other)	None Detected
		Homogeneous				
5906-4 DRYWALL 040727570-0004B	N.E. OFFICE	Brown/White Fibrous Heterogeneous	30%	Cellulose	70% Non-fibrous (other)	None Detected
5906-5 WALL TEXTURE 040727570-0005	UPSTAIRS W. WALL	White Non-Fibrous			100% Non-fibrous (other)	None Detected
		Homogeneous				
5906-5 JT. COMPOUND 040727570-0005A	UPSTAIRS W. WALL	White Non-Fibrous			100% Non-fibrous (other)	None Detected
		Homogeneous				

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Analysis Date:

11/10/2007

Report Date:

12/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			<u>Asbestos</u>			
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Type
5906-5 DRYWALL 040727570-0005B	UPSTAIRS W. WALL	Brown/White Fibrous Heterogeneous	30%	Cellulose	70% Non-fibrous (other)	None Detected
5906-6 040727570-0006	S.E. OFFICE	Tan/White Fibrous Heterogeneous	15%	Cellulose	83% Non-fibrous (other)	2% Chrysotile
5906-7 040727570-0007	S.E. OFFICE	Tan/White Fibrous Heterogeneous	15%	Cellulose	83% Non-fibrous (other)	2% Chrysotile
5906-8 040727570-0008	WOMENS RESTROOM	Tan/White Fibrous Heterogeneous	15%	Cellulose	83% Non-fibrous (other)	2% Chrysotile
5906-9 040727570-0009	HALL BY KITCHEN	White Non-Fibrous Heterogeneous	10%	Cellulose	88% Non-fibrous (other)	2% Chrysotile
5906-10 040727570-0010	UPSTAIRS	White Non-Fibrous Heterogeneous	10%	Cellulose	87% Non-fibrous (other)	3% Chrysotile
5906-11 JT. COMPOUND 040727570-0011	S.E. OFFICE	White Non-Fibrous			100% Non-fibrous (other)	None Detected
		Homogeneous				

Analyst(s)

Delores Beard (22) Jerry Cherian (41) Stephen Siegel, CIH, Laboratory Manager

or other approved signatory

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Achaetae

Analysis Date: Report Date:

Non-Asbestos

11/10/2007 12/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

			<u>bestos</u>	<u>Asbestos</u>		
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Type
5906-11 WALL TEXTURE 040727570-0011A	S.E. OFFICE	White Fibrous	5%	Cellulose	95% Non-fibrous (other)	None Detected
		Heterogeneous				
5906-12 JT. COMPOUND 040727570-0012	MECHANICAL RM	White Non-Fibrous			100% Non-fibrous (other)	None Detected
040727370-0072		Homogeneous				
5906-12 WALL TEXTURE 040727570-0012A	MECHANICAL RM	White Fibrous	5%	Cellulose	95% Non-fibrous (other)	None Detected
		Heterogeneous				
5906-13 JT. COMPOUND 040727570-0013	N.E. WALL GREAT RM	White Non-Fibrous			100% Non-fibrous (other)	None Detected
040727570-0013		Homogeneous				
5906-13 WALL TEXTURE 040727570-0013A	N.E. WALL GREAT RM	White Fibrous	5%	Cellulose	95% Non-fibrous (other)	None Detected
040727370-0013A		Heterogeneous				
5906-14 JT. COMPOUND 040727570-0014	N.E. OFFICE	White Non-Fibrous			100% Non-fibrous (other)	None Detected
040727370-0014		Homogeneous				
5906-14 WALL TEXTURE 040727570-0014A	N.E. OFFICE	White/Brown Fibrous	5%	Cellulose	95% Non-fibrous (other)	None Detected
040121310-0014A		Heterogeneous				

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AACM PHASE 3 FORT WORTH

Analysis Date: Report Date:

11/10/2007 12/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

		Non-Asbestos			<u>Asbestos</u>	
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Type
5906-15 JT. COMPOUND 040727570-0015	UPSTAIRS	White Non-Fibrous			100% Non-fibrous (other)	None Detected
		Homogeneous				
5906-15 WALL TEXTURE 040727570-0015A	UPSTAIRS	White/Brown Fibrous	10%	Cellulose	90% Non-fibrous (other)	None Detected
		Heterogeneous				
5906-16 FLOORING 040727570-0016	ENTRY	Black Non-Fibrous			100% Non-fibrous (other)	None Detected
		Homogeneous				
5906-16 MASTIC 040727570-0016A	ENTRY	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
5906-17 FLOORING 040727570-0017	S.E. OFFICE	Brown/Black Non-Fibrous			100% Non-fibrous (other)	None Detected
		Homogeneous				
5906-17 MASTIC 040727570-0017A	S.E. OFFICE	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
5906-18 FLOORING 040727570-0018	S.E. OFFICE	Brown/Black Non-Fibrous			100% Non-fibrous (other)	None Detected
040/2/5/0-0018		Heterogeneous				

Analyst(s)

Delores Beard (22) Jerry Cherian (41)

Stephen Siegel, CIH, Laboratory Manager or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the



EMSL Analytical, Inc.

107 Haddon Ave., Westmont, NJ 08108

Phone: (856) 858-4800

Fax: (856) 858-4960

Email: westmontasblab@EMSL.com

Attn: Seth Schultz

The Louis Berger Group, Inc. 199 Water Street, 23rd Floor New York, NY 10038

Phone: (212) 612-7900

Project: AACM PHASE 3 FT WORTH

Customer ID:

LOUI56

Customer PO:

JG500P5

Received:

11/05/07 9:10 AM

EMSL Order:

040727570

EMSL Proj:

AACM PHASE 3 FORT WORTH

Analysis Date: Report Date:

11/10/2007 12/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

		<u>Non-Asbestos</u>			<u>Asbestos</u>	
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Type
5906-18 MASTIC 040727570-0018A	S.E. OFFICE	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
5906-19 FLOORING 040727570-0019	WEST STORAGE OFFICE	White/Black/Blue Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
5906-19 MASTIC 040727570-0019A	WEST STORAGE OFFICE	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
5906-20 FLOORING 040727570-0020	WEST STORAGE OFFICE	White/Black/Blue Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
5906-20 MASTIC 040727570-0020A	WEST STORAGE OFFICE	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
5906-21 FLOORING 040727570-0021	KITCHEN	White/Black Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected
5906-21 MASTIC 040727570-0021A	KITCHEN	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected

Analyst(s)

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Jerry Cherian (41)

Stephen Siegel, CIH, Laboratory Manager or other approved signatory

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			<u>No</u>	n-Asbestos	<u>Asbestos</u>
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
5906-22 TILE 040727570-0022	KITCHEN	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
5906-22 MASTIC 040727570-0022A	KITCHEN	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
5906-23 TILE 040727570-0023	KITCHEN	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
5906-23 MASTIC 040727570-0023A	KITCHEN	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
5906-24 TILE 040727570-0024	KITCHEN	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
5906-24 MASTIC 040727570-0024A	KITCHEN	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
5906-25 040727570-0025	GREAT RM	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
5906-26 040727570-0026	GREAT RM	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Delores Beard (22) Jerry Cherian (41) Stephen Signal CIH Laboratory M

Stephen Siegel, CIH, Laboratory Manager or other approved signatory

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Analysis Date:

11/10/2007

Report Date: 12/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				Non-Ask	pestos	<u>Asbestos</u>
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Type
5906-27 040727570-0027	GREAT RM	White/Red Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected
5906-28 040727570-0028	FURNACE	Tan Non-Fibrous Heterogeneous	5%	Cellulose	95% Non-fibrous (other)	None Detected
5906-29 040727570-0029	FURNACE	Tan Non-Fibrous Heterogeneous	5%	Cellulose	95% Non-fibrous (other)	None Detected
5906-30 040727570-0030	FURNACE	Tan Non-Fibrous Homogeneous	10%	Cellulose	90% Non-fibrous (other)	None Detected
5906-31 040727570-0031	FLORESCENT LIGHTS	Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
5906-32 040727570-0032	FLORESCENT LIGHTS	Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
5906-33 040727570-0033	FLORESCENT LIGHTS	Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
5906-34 040727570-0034	EXTERIOR WINDOWS	Various Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected

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Analysis Date:

11/10/2007

Report Date: 12/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

				Non-Ask	<u>estos</u>	<u>Asbestos</u>
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Type
5906-35 040727570-0035	EXTERIOR WINDOWS	Various Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected
5906-36 040727570-0036	EXTERIOR WINDOWS	Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
5906-37 040727570-0037	ROOF BY FIREPLACE	White/Black Fibrous Heterogeneous	30% SUGGEST		70% Non-fibrous (other)	None Detected
5906-38 040727570-0038	ROOF BY FIREPLACE	White/Black Fibrous Heterogeneous	30%	Cellulose	65% Non-fibrous (other)	5% Chrysotile
5906-39 040727570-0039	ROOF BY FIREPLACE	Black Non-Fibrous Homogeneous	30%	Cellulose	70% Non-fibrous (other)	None Detected

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	iDATE INSPECTOR/TDH# CLIENT/CONTACT	1	-7	S	1 B "	1 9 112		r, G 1	1			07 NO 7	i. VOI ISV IAI		Date/Time
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TDH License #10-0145

Fax 972,478,7615

Date/Time:

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Received by:

Date/Time:

E-mail address: qraq@ihst.com \$ se hutte @ lows Reger com TX 972 478,7415

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2235 Keller Way Industrial Hygiene & Safety Technology, Inc. E-mail address: greg@ihst.com

Date/Time:
///2/07
Date/Time:

Released by:

Received by:

Carrollton, TX

972 478,7415 Fax 972,478,7615 TDH License #10-0145

Date/Time;

Page 2 of 4

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II	IHST PROJECT #:						H >		3
	PROJECT TITLE:				10-1-11	7		:DATE	
PRC	PROJECT ADDRESS;			Bramlett	iett	10-5040	240	:INSPECTOR/TDH#	#HO
		Fort worth taxes						.CELEIVI/CONTACT	<u>.</u>
	L		, ·	Turnaround Time: ()Immediate	d Time	: ()Im	mediate	()Rush ()	()Normal
HOMO AREA #	SAMPLE #	SAMPLE DESCRIPTION	LOCATION	ESTIMATED QUANTITY (SF/LF/ea.)	TYPE of ACM	F NF I NF II	CONDITTON (G/D/SD)	1 7 7	RESPONSE
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972 478,7415 Fax 972,478,7615 TDH License #10-0145

Carrollton, TX

Industrial Hygiene & Safety Technology, Inc. 2235 Keller Way

E-mail address: greg@ihst.com

Page 3 of 4

PRC	IHST PROJECT #: PROJECT TITLE: PROJECT ADDRESS:	5906 Boca Raton FORT WORTH TEXUS		Bramfett 10-5040 Louis Berger Group Sett Schuitz Timaround Time: (Virginalists)	11-01-07 melt 10- 15 Benge 5chu 172	-07 10-5040 168 GR	O Group	04 07 27 57 0 :DATE :INSPECTOR/TDH# :CLIENT/CONTACT	7 0 DH# ACT
HOMO AREA #	SAMPLE #	SAMPLE DESCRIPTION	LOCATION	ESTIMATED QUANTITY (SF/LF/ea.)	TYPE of ACM	P P NF II	CONDITTON (G/D/SD)	POTENTIAL RESPON FOR RATIN	RESPONSE RATING
8	18,7065	Maste	Florescent Lights	[&F	×	いよい	ರ	J	
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Releas	Released by: Hu	Ung Sun 10th 11/2/07	: O) a Received by:					Date/Time:	

t ot TDH License #10-0145 Page 4 Date/Time: Fax 972,478,7615 972 478,7415 E-mail address: greg@ihst.com S.schultz@louig bryer.com Send Recuits and Billies To Louis Bergar Charles Carrollton, TX Received by: 2235 Keller Way Date/Time: Industrial Hygiene & Safety Technology, Inc.

Released by:

H	IHST PROJECT #:	1		1	10-10-11		0	04 0727570 DATE	7.0
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AREA #	PHOTO #	. SAMPLE DESCRIPTION	LOCATION	QUANTITY (SF/LF/ea.)	ਉਂ ਰ	NFI C	(G/D/SD)	POTENTIAL FOR DISTURBANCE	RESPONSE
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<i>Indus</i> F-mai	trial Hygiene &	Industrial Hygiene & Safety Technology, Inc. 2235 Keller Way	8	972.478.7415. H	Fax 972.478.7615	78.76	1.	TDH License #10-0145	-0145
i N	end Recult	Send Recutt And Bully To Lowis Bengthered	8	در تراده در سول	23 Rd	Щ	· 61,	Page 4 c	J o
	•			\$ 50 m	?				

Client: The Louis Berger Group, Inc.

Logged: 11/5/07

TAT: 120 Hour

Date:

Address:

199 Water Street, 23rd Floor

New York, NY 10038

Date/Time Due: 11/10/2007 9:10:00 AM

Fax:

Project: AACM PHASE 3 FORT WORTH

AACM PHASE 3 FT WORTH

Special Instructions

EXTRANET-PDF copy of the invoice for every job be sent to

invoicing@louisberger.com.The email subject line must have (in order) the Project Manager / Louis Berger Project Number /

Order Number

040727570

					(OMPON	ENT TY	PES		_		MICRO	SCOPIC	
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	TY (H) 3 OTHER 4 Layers (#)		Stereo Asbestos Est. %	7.0000000	% of	Fil	ther crous		ibrous	Non-Asb Char.			5 Green 6 Colorless	
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10	(H)	12		-							P	В (F	c)	E
	- 			·										

_ Computer: _

EMSL Analytical, Inc., 107 Haddon Ave., Westmont, NJ 08108

The Louis Berger Group, Inc.

New York, NY 10038

Logged: 11/5/07

TAT: 120 Hour

Address:

199 Water Street, 23rd Floor

Date/Time Due: 11/10/2007 9:10:00 AM

Fax: Project:

AACM PHASE 3 FORT WORTH

AACM PHASE 3 FT WORTH

Special Instructions

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Order Number

040727570

Macroscopic Treatment Asbestos Fibrous Non-Fibrous Optical Properties COLOR (C) 1 Brown 4 White 7 Black 2 Crushed 2 Crushed 2 Amosite 3 Treatment 4 Ashed 4 Tremolite 10 Synthetic 17 Cal. Carbonate 17 Cal. Carbonate 18 Matrix 19 Perlite 18 Matrix 19 Perlite 19 Min. World 18 Matrix 19 Perlite 19 Perlite 19 Perlite 19 Matrix 19 Perlite		Г		C	OMPON	ENT TY	PES				MICRO	OSCOPIC	
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Sample Macrosc. Treat	1 Homogeneous 3 OTHER	Asbesto	s Asbestos		Fil		Non-	Fibrous			<u></u> .	5 Green 6 Coloriess	4. Undulose
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(\(\) \(\) \(\)	texture (H)		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							P	В	(FC)	Е

Analyst:		11/10/07	Computer:		Date:	***
	/ / EMS	SL Analytical, Inc., 107	Haddon Ave., \	Westmont, NJ 08108		

Client: The Louis Berger Group, Inc.

Logged: 11/5/07

TAT: 120 Hour

Address:

199 Water Street, 23rd Floor New York, NY 10038

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Project:

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				C	OMPON	ENT TY	PES				MICR	OSCOPIC	
Macrosco	pic	Treatment	Asbesto	os	Fibr	ous		Non-Fib	rous			Properties	3
TEXTURE (T	1 Brown 4 White 7 Black 2 Gray 5 Red 8 Silver 3 Tan 6 Various 9 Blue 10 Yellow TEXTURE (T) Fibrous 2 Non-Fibrous 3 Other		6 Crocidolite		8 Glass 9 Min. Wool 10 Synthetic 11 Other 12 Wollastonite		14 Quar 15 Mica 16 Gyps 17 Cal. 18 Matr 19 Perl 20 Othe	a sum Carbona six Lite	te	Straight Uniform Diamet Ribbon-Like Tapered Ends Pleochroism (P) Yes No	orphology (M) 6. Scaled 7. Pitted	Sign of 1. + 2 3. Variable Shapes (B) Fiber Color (FG 1 White 0 2 Brown 3 Beire	Elongation (S) Extinction (E 1. Paralle! 2. Symetrical 3. Oblique
	(H) DTHER Layers (#)	Stereo Asbesto Est. %	s Asbestos	% of	Fit	ther orous		Fibrous	Non-Asb Char.		A Hole 0.00 of Ea	5 Green 6 Colorless	4. Undulose
	Macrosc. Tre	eat	Туре	Asbestos	Type	%	Туре	<u> %</u>	Ex. E4			Properties	
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Analyst: 7.6	Date: ///0/07	Computer:	Date:	
/ ' '	EMSL Apalytical, Inc., 107	7 Haddon Ave., Westmont, NJ 08108		

Client: The Louis Berger Group, Inc.

New York, NY 10038

Logged: 11/5/07

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Order Number

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				COMPONENT TY	MICRO	OSCOPIC		
	Macroscopic	Treatment	Asbestos	Fibrous	Non-Fibrous	Optical Properties		
	COLOR (C) 1 Brown 4 White 7 Black 2 Gray 5 Red 8 Silver 3 Tan 6 Various 9 Blue 10 Yellow TEXTURE (T) 1 Fibrous 2 Non-Fibrous 3 Other	1 Teased 2 Crushed 3 Dissolve 4 Ashed 5 Heated 6 Melted	1 Chrysotile 2 Amosite 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite	7 Cellulose 8 Glass 9 Min. Wool 10 Synthetic 11 Other 12 Wollastonite 13 Hair	14 Quartz 15 Mica 16 Gypsum 17 Cal. Carbonate 18 Matrix 19 Perlite 20 Other	Morphology (M)	Sign of Elongation (S) 1. + 2 3. Variable B) Fiber Color (FC) Extinction (E) 1 White 1. Parallel 2 Brown 2. Symmetrical 3 Beige 3. Oblique	
	HOMOGENEITY (H) 1 Homogeneous 3 OTHER 2 Heterogeneous 4 Layers (#)	Stered Asbest	os Asbestos % of	Other Fibrous	Non-Fibrous Non-Asb Char.	4 None 0.00 or Isol	5 Green 6 Colorless	
	Sample Macrosc. Tro	eat	1 ///	OS Type %	Type	Optical R.I.	Properties	
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Analyst: Date: Date: Date:		
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EMSL Analytical, Inc., 107 Haddon Ave., Westmont, NJ 08108

The Louis Berger Group, Inc. Client:

New York, NY 10038

Logged: 11/5/07

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AACM PHASE 3 FORT WORTH

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TEXTURE (Brown 4 White 7 Black 2 Crushed 3 Gray 5 Red 8 Silver 3 Dissolve 4 Ashed 10 Yellow 5 Heated 6 Melted TEXTURE (T) Fibrous 2 Non-Fibrous 3 Other		shed 2 Amosite solve 3 Anthophyllite ed 4 Tremolite ted 5 Actinolite ted 6 Crocidolite		8 Glass 15 9 Min. Wool 16 10 Synthetic 17 11 Other 18 12 Wollastonite 19		16 Gyp: 17 Cal 18 Mat: 19 Per:	15 Mica 16 Gypsum 17 Cal. Carbonate 18 Matrix 19 Perlite 20 Other		1. Way 2. Straight 7. Pittel 2. 3. Uniform Diameter 8. Medulla 3. Variable 4. Ribbon-Like 9. Exolic Shapes 5. Tapered Ends 10. O.			Extinction (S) Extinction (i. Parallel 2. Symmetrics 3. Oblique 4. Undulose
	Y (H) OTHER Layers (#)	Stereo Asbestos Est. %	73063103	% of Asbesto	Fil	ther		Fibrous	Non-Asb Char.			tropic 4 Blue 5 Green 6 Colorless	4. Undulose
Sample	Macrosco Ti	reat	Туре	Aspesio	Type	<u>%</u>	Туре	1/1/2	Ex. E4	C	ptical ⊥ R.I.	Properties	
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Computer:

107 Haddon Ave., Westmont, NJ 08108

Client: The Louis Berger Group, Inc.

New York, NY 10038

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								OMPON	ENT TV	DEC	· · · · · · · · · · · · · · · · · · ·		T	MOD	200001	
	Macros	copic	Tr	eatment		Asbes		Fibi			Non-Fib	rous	MICROSCOPIC Optical Properties			
1 Bro 2 Gro 3 Tai	COLOR (C own 4 White ay 5 Red n 6 Variou	C) 1 Teased 2 Crushed 8 Silver 3 Dissolve ous 9 Blue 4 Ashed 10 Yellow 5 Heated 6 Melted		6 Crocidolite		7 Cellul 8 Glass 9 Min. W 10 Synthe 11 Other 12 Wollas 13 Hair	ose Oool etic	14 Quan 15 Mica 16 Gyps 17 Cal 18 Matr 19 Perl	14 Quartz 15 Mica 16 Gypsum 17 Cal. Carbonate 18 Matrix 19 Perlite 20 Other		Straight Uniform Diamet Ribbon-Like Tapered Ends	orphology (M) 6. Scaled	Sign of 1, + 2, - 3. Variable	of Elongation (S)		
1 Homo 2 Hete	HOMOGENEIT ogeneous 3 erogeneous 4 Sample	Y (H) OTHER Layers (#) Macrosc.	Treat	Stered Asbesto Est. %	os A	bestos Type	% of Asbesto	Fil	other brous %	Non-l	Fibrous %	Non-Asb Char. Ex. E4	Tr.		5 Green 6 Colorless Propertie	
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	<i>)</i>	(H) 2 (C) U , 7	11	7	-	/		7	30	20	65	ny	/, T	D⊥ R.I.	(FC)	jj R.i.
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Analyst:	J-64	Date:	1//	Computer:		Date:	
	/	/ EMS	SL Anaflyticál, Inc., 107	' Haddon Ave., '	Westmont, NJ 08108		

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Macroscopic COLOR (C)		atment	Asbesto	os	Fibr			Non-Fib	rous	Optical Properties					
1 Brown 4 White 7 Black 2 Gray 5 Red 8 Silver 3 Tan 6 Various 9 Blue 4 Ashed 10 Yellow 5 Heated TEXTURE (T) 1 Fibrous 2 Non-Fibrous 3 Other		ushed 2 ssolve 3 hed 4 ated 5	3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite		8 Glass 9 Min. Wool 10 Synthetic 11 Other 12 Wollastonite		14 Quartz 15 Mica 16 Gypsum 17 Cal. Carbonate 18 Matrix 19 Perlite 20 Other		Onitorm Drame Ribbon-Like Tapered Ends Pleochroism (P) Yes No	9. Exotic S 10. Other Birefringenece (1 Low: 0.010 2 Med 0.010-0.050 3 High > 0.050	B) Fiber Color (F 1 White 2 Brown 3 Beige	C) Extinction (S) 1. Parallel 2. Symmetrical 3. Oblique 4. Undulose			
HOMOGENEITY (H) 1 Homogeneous 3 OTHER 2 Heterogeneous 4 Layers (#)		Stereo Asbestos Est. %	7 100003103	% of	Fit	ther	Non-	Fibrous	Non-Asb Char.		4 None 0.00 or Iso	tropic 4 Blue 5 Green 6 Colorless	4. Undulose		
	Treat	1.51. //	Туре	Asbestos	Type	%	Туре	<u>%</u>	Ex. E4			Properties			
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(C)	/		M		+		20	100			⊥ R.I.	(FC)	E R.I.		
	1/2/	O					20	100			М		ş (N.I.		
Goint (H)	15	_								P	В	(FC)	Е		
y 1/0 . / 1	1,		NO		17	30	20	70	MU		⊥ R.I.		[] R.I.		
01 (1) 1 drynall (1) 2 02 (6) 4 02 (7) 2 uail texture (11) 1	//7	0								····	М		s		
drynall (H) 2	()	_								P	В	(FC)	Е		
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Vail texture (1) 2	//2	//2	//?	0									М		S
	15									P	В	(FC)	Е		
02 (C) 4 (D) 2 / (C) 1	//	X	(A)		ļ		20	100			⊥ R.I.		R.I.		
Join / (H) /	/3	D								P	В	(70)	S		
(C))' (/	,	· · · · · · · · · · · · · · · · · · ·	M			2.0	20	0-0	MU	•	⊥ R.i.	(FC)	E R.J.		
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63 3010+ Canapayad (H)	3	()									M		S		
Compound (H)										P		(FC)	E		
07 (0) / 4	//		M		7	30	20	70	My		⊥ R.I.		R.I.		
03 (1) 1 Irvna/ (H) 2	/3	0								P	M	(TO) T	S		
STVNA. 1 (C)											B ⊥ R.i.	(FC)	E		
(O)				<u> </u>			20				М		R.I.		
(H)	- 1									P		(FC)	E		
					<u></u>			اليــــــــــــــــــــــــــــــــــــ				/			

Analyst:		Date:	_11/1	10/07	Computer:		Date:	
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INTERNAL CHAIN OF CUSTODY

11/5/2007 3:22:51 PM

Order ID: 040727570

Attn:

Seth Schultz

The Louis Berger Group, Inc. 199 Water Street, 23rd Floor

New York, NY 10038

Project: AACM PHASE 3 FT WORTH

Customer ID

LOUI56

Customer PO:

JG500P5

Received:

11/05/07 9:10 AM

Fax:

Phone: (917) 715-5731

EMSL Order:

040727570

EMSL Project ID: AACM PHASE 3 FORT WORTH

Test:	PLM	<u>Matrix</u>	Bulk	TAT:	120 Hour	Qty:	39
Acct S	Sts: SI	Slsprsn: tnardo	zzi	Logged: Sample Condition:	Onacceptable	Date:	
□ Exe	empt from prep charge empt from lab opening empt from layer/aliquo	fee		Prepped: Analyzed: Data Entry		Date: // Date:	11/10/07 11/10/07 11/11/11
Cuania				Screened: Mailed:	5	<u>Date:</u> <u>Date:</u>	11/12/07

Special Instructions

EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com.The email subject line must have (in order) the Project Manager / Louis Berger Project Number / "EMSL" / EMSL Order Number.

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
040727570	040727570-0001	5906-1	N. WALL ENTRY	11/10/2007 9:10:00 AM
040727570	040727570-0002	5906-2	SE OFFICE	11/10/2007 9:10:00 AM
040727570	040727570-0003	5906-3	W.WALL GREAT RM	11/10/2007 9:10:00 AM
040727570	040727570-0004	5906-4	N.E. OFFICE	11/10/2007 9:10:00 AM
040727570	040727570-0005	5906-5	UPSTAIRS W. WALL	11/10/2007 9:10:00 AM
040727570	040727570-0006	5906-6	S.E. OFFICE	11/10/2007 9:10:00 AM
040727570	040727570-0007	5906-7	S.E. OFFICE	11/10/2007 9:10:00 AM
040727570	040727570-0008	5906-8	WOMENS RESTROOM	11/10/2007 9:10:00 AM
040727570	040727570-0009	5906-9	HALL BY KITCHEN	11/10/2007 9:10:00 AM
040727570	040727570-0010	5906-10	UPSTAIRS	11/10/2007 9:10:00 AM
040727570	040727570-0011	5906-11	S.E. OFFICE	11/10/2007 9:10:00 AM
				★

INTERNAL CHAIN OF CUSTODY

11/5/2007 3:22:53 PM

Order ID: 040727570

Attn: Seth Schultz

Fax:

The Louis Berger Group, Inc. 199 Water Street, 23rd Floor

New York, NY 10038

Phone: (917) 715-5731

Project: AACM PHASE 3 FT WORTH

Customer ID

LOUI56

Customer PO:

JG500P5

Received:

11/05/07 9:10 AM

EMSL Order: 040727570

EMSL Project ID: AACM PHASE 3 FORT WORTH

040727570	040727570-0012	5906-12	MECHANICAL RM	11/10/2007 9:10:00 AM
040727570	040727570-0013	5906-13	N.E. WALL GREAT RM	11/10/2007 9:10:00 AM
040727570	040727570-0014	5906-14	N.E. OFFICE	11/10/2007 9:10:00 AM
040727570	040727570-0015	5906-15	UPSTAIRS	11/10/2007 9:10:00 AM
040727570	040727570-0016	5906-16	ENTRY	11/10/2007 9:10:00 AM
040727570	040727570-0017	5906-17	S.E. OFFICE	11/10/2007 9:10:00 AM
040727570	040727570-0018	5906-18	S.E. OFFICE	11/10/2007 9:10:00 AM
040727570	040727570-0019	5906-19	WEST STORAGE OFFICE	11/10/2007 9:10:00 AM
040727570	040727570-0020	5906-20	WEST STORAGE OFFICE	11/10/2007 9:10:00 AM
040727570	040727570-0021	5906-21	KITCHEN	11/10/2007 9:10:00 AM
040727570	040727570-0022	5906-22	KITCHEN	11/10/2007 9:10:00 AM
040727570	040727570-0023	5906-23	KITCHEN	11/10/2007 9:10:00 AM
040727570	040727570-0024	5906-24	KITCHEN	11/10/2007 9:10:00 AM
040727570	040727570-0025	5906-25	GREAT RM	11/10/2007 9:10:00 AM
040727570	040727570-0026	5906-26	GREAT RM	11/10/2007 9:10:00 AM
040727570	040727570-0027	5906-27	GREAT RM	11/10/2007 9:10:00 AM
040727570	040727570-0028	5906-28	FURNACE	11/10/2007 9:10:00 AM
040727570	040727570-0029	5906-29	FURNACE	11/10/2007 9:10:00 AM
040727570	040727570-0030	5906-30	FURNACE	11/10/2007 9:10:00 AM
040727570	040727570-0031	5906-31	FLORESCENT LIGHTS	11/10/2007 9:10:00 AM
040727570	040727570-0032	5906-32	FLORESCENT LIGHTS	11/10/2007 9:10:00 AM

INTERNAL CHAIN OF CUSTODY

11/5/2007 3:22:55 PM

Order ID: 040727570

Attn:

Fax:

Seth Schultz

The Louis Berger Group, Inc. 199 Water Street, 23rd Floor

New York, NY 10038

Phone: (917) 715-5731

Project: AACM PHASE 3 FT WORTH

Customer ID

LOUI56

Customer PO:

JG500P5

Received:

11/05/07 9:10 AM

EMSL Order:

040727570

EMSL Project ID: AACM PHASE 3 FORT WORTH

040727570	040727570-0033	5906-33	FLORESCENT LIGHTS	11/10/2007 9:10:00 AM
040727570	040727570-0034	5906-34	EXTERIOR WINDOWS	11/10/2007 9:10:00 AM
040727570	040727570-0035	5906-35	EXTERIOR WINDOWS	11/10/2007 9:10:00 AM
040727570	040727570-0036	5906-36	EXTERIOR WINDOWS	11/10/2007 9:10:00 AM
040727570	040727570-0037	5906-37	EXTERIOR WINDOWS Roof by fireplace	11/10/2007 9:10:00 AM
040727570	040727570-0038	5906-38	EXTERIOR WINDOWS Roof by freplace	11/10/2007 9:10:00 AM
040727570	040727570-0039	5906-39	EXTERIOR WINDOWS Roof by fireplace	11/10/2007 9:10:00 AM

J 12/06/07

Appendix:

Appendix C: Bulk Summary Report

Table 1. Summary of Bulk Sample Analysis and Assessment

The Louis Berger Group, Inc.

Oak Hollow Office 5901 Boca Raton Blvd Ft. Worth, TX 76112

Survey Date(s): 11/1/2007 through 11/1/2007

Sample ID#	Sample Description	Material Location	Percent & Type of Asbestos Detected (a)	Estimated Quantity	Type of ACM (b)	Friability (c)	Physical Condition	Potential for Disturbance	Response Rating
5906-01	Wall Texture (homogeneous area # 01)	N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall	Wall Texture - NAD Joint Compound - NAD Drywall - NAD	5700 s.f.	Surfacing	NF II	Good	Low	0
5906-02	Wall Texture (homogeneous area # 01)	N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall	Wall Texture - NAD Joint Compound - NAD Drywall - NAD	5700 s.f.	Surfacing	NF II	Good	Low	0
5906-03	Wall Texture (homogeneous area # 01)	N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall	Wall Texture - NAD Joint Compound - NAD Drywall - NAD	5700 s.f.	Surfacing	NF II	Good	Low	0
5906-04	Wall Texture (homogeneous area # 01)	N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall	Wall Texture - NAD Joint Compound - NAD Drywall - NAD	5700 s.f.	Surfacing	NF II	Good	Low	0
5906-05	Wall Texture (homogeneous area # 01)	N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall	Wall Texture - NAD Joint Compound - NAD Drywall - NAD	5700 s.f.	Surfacing	NF II	Good	Low	0
5906-06	Popcorn Ceiling Texture (homogeneous area # 02)	SE Office, Women's Restroom, Hall by Kitchen, Upstairs	Ceiling Texture - 2% CH	2200 s.f.	Surfacing	NF II	Good	Low	1

Sample ID#	Sample Description	Material Location	Percent & Type of Asbestos Detected (a)	Estimated Quantity	Type of ACM (b)	Friability (c)	Physical Condition	Potential for Disturbance	Response Rating
5906-07	Popcorn Ceiling Texture (homogeneous area # 02)	SE Office, Women's Restroom, Hall by Kitchen, Upstairs	Ceiling Texture - 2% CH	2200 s.f.	Surfacing	NF II	Good	Low	1
5906-08	Popcorn Ceiling Texture (homogeneous area # 02)	SE Office, Women's Restroom, Hall by Kitchen, Upstairs	Ceiling Texture - 2% CH	2200 s.f.	Surfacing	NF II	Good	Low	1
5906-09	Popcorn Ceiling Texture (homogeneous area # 02)	SE Office, Women's Restroom, Hall by Kitchen, Upstairs	Ceiling Texture - 2% CH	2200 s.f.	Surfacing	NF II	Good	Low	1
5906-10	Popcorn Ceiling Texture (homogeneous area # 02)	SE Office, Women's Restroom, Hall by Kitchen, Upstairs	Ceiling Texture - 2% CH	2200 s.f.	Surfacing	NF II	Good	Low	1
5906-11	Sheetrock Joint Compound (homogeneous area # 03)	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs	Joint Compound - 2% CH Wall Texture - NAD	5700 s.f.	Surfacing	NF II	Good	Low	1
5906-12	Sheetrock Joint Compound (homogeneous area # 03)	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs	Joint Compound - NAD Wall Texture - NAD	5700 s.f.	Surfacing	NF II	Good	Low	1
5906-13	Sheetrock Joint Compound (homogeneous area # 03)	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs	Joint Compound - NAD Wall Texture - NAD	5700 s.f.	Surfacing	NF II	Good	Low	1
5906-14	Sheetrock Joint Compound (homogeneous area # 03)	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs	Joint Compound - NAD Wall Texture - NAD	5700 s.f.	Surfacing	NF II	Good	Low	1

Sample ID#	Sample Description	Material Location	Percent & Type of Asbestos Detected (a)	Estimated Quantity	Type of ACM (b)	Friability (c)	Physical Condition	Potential for Disturbance	Response Rating
5906-15	Sheetrock Joint Compound (homogeneous area # 03)	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs	Joint Compound - NAD Wall Texture - NAD	5700 s.f.	Surfacing	NF II	Good	Low	1
5906-16	Peel and Stick Flooring (Wood Grain) and Mastic (Brown) (homogeneous area # 04)	Entry, SE Office	Wood Grain Flooring - NAD Brown Mastic - NAD	250 s.f.	Misc	NF I	Damaged	Low	0
5906-17	Peel and Stick Flooring (Wood Grain) and Mastic (Brown) (homogeneous area # 04)	Entry, SE Office	Wood Grain Flooring - NAD Brown Mastic - NAD	250 s.f.	Misc	NF I	Damaged	Low	0
5906-18	Peel and Stick Flooring (Wood Grain) and Mastic (Brown) (homogeneous area # 04)	Entry, SE Office	Wood Grain Flooring - NAD Brown Mastic - NAD	250 s.f.	Misc	NF I	Damaged	Low	0
5906-19	Peel and Stick Flooring (White/Blue Pattern) and Mastic (Brown) (homogeneous area # 05)	West Storage Office, Kitchen	White/Blue Flooring - NAD Brown Mastic - NAD	240 s.f.	Misc	NF I	Damaged	Low	0
5906-20	Peel and Stick Flooring (White/Blue Pattern) and Mastic (Brown) (homogeneous area # 05)	West Storage Office, Kitchen	White/Blue Flooring - NAD Brown Mastic - NAD	240 s.f.	Misc	NF I	Damaged	Low	0
5906-21	Peel and Stick Flooring (White/Blue Pattern) and Mastic (Brown) (homogeneous area # 05)	West Storage Office, Kitchen	White/Blue Flooring - NAD Brown Mastic - NAD	240 s.f.	Misc	NF I	Damaged	Low	0
5906-22	12" x 12" Floor Tile (Grey) and Mastic (Yellow) and (Brown) (homogeneous area # 06)	Kitchen	Grey Floor Tile - NAD Yellow Mastic - NAD	80 s.f.	Misc	NF I	Good	Low	0



Sample ID#	Sample Description	Material Location	Percent & Type of Asbestos Detected (a)	Estimated Quantity	Type of ACM (b)	Friability (c)	Physical Condition	Potential for Disturbance	Response Rating
5906-23	12" x 12" Floor Tile (Grey) and Mastic (Yellow) and (Brown) (homogeneous area # 06)	Kitchen	Grey Floor Tile - NAD Yellow Mastic - NAD	80 s.f.	Misc	NF I	Good	Low	0
5906-24	12" x 12" Floor Tile (Grey) and Mastic (Yellow) and (Brown) (homogeneous area # 06)	Kitchen	Grey Floor Tile - NAD Brown Mastic - NAD	80 s.f.	Misc	NF I	Good	Low	0
5906-25	Grout (White) (Under Ceramic Tile) (homogeneous area # 07)	Great Room	White Grout - NAD	705 s.f.	Misc	NF II	Good	Low	0
5906-26	Grout (White) (Under Ceramic Tile) (homogeneous area # 07)	Great Room	White Grout - NAD	705 s.f.	Misc	NF II	Good	Low	0
5906-27	Grout (White) (Under Ceramic Tile) (homogeneous area # 07)	Great Room	White/Red Grout - NAD	705 s.f.	Misc	NF II	Good	Low	0
5906-28	Fire Brick (homogeneous area # 08)	Furnace	Fire Brick - NAD	25 s.f.	TSI	NF II	Good	Low	0
5906-29	Fire Brick (homogeneous area # 08)	Furnace	Fire Brick - NAD	25 s.f.	TSI	NF II	Good	Low	0
5906-30	Fire Brick (homogeneous area # 08)	Furnace	Fire Brick - NAD	25 s.f.	TSI	NF II	Good	Low	0

Sample ID#	Sample Description	Material Location	Percent & Type of Asbestos Detected (a)	Estimated Quantity	Type of ACM (b)	Friability (c)	Physical Condition	Potential for Disturbance	Response Rating
5906-31	Mastic (Black) (homogeneous area # 09)	Florescent Lights	Black Mastic - NAD	1 l.f.	Misc	NF II	Good	Low	0
5906-32	Mastic (Black) (homogeneous area # 09)	Florescent Lights	Black Mastic - NAD	1 l.f.	Misc	NF II	Good	Low	0
5906-33	Mastic (Black) (homogeneous area # 09)	Florescent Lights	Black Mastic - NAD	1 l.f.	Misc	NF II	Good	Low	0
5906-34	Caulk (homogeneous area # 10)	Exterior Windows	Caulking - NAD	200 l.f.	Misc	NF II	Good	Low	0
5906-35	Caulk (homogeneous area # 10)	Exterior Windows	Caulking - NAD	200 l.f.	Misc	NF II	Good	Low	0
5906-36	Caulk (homogeneous area # 10)	Exterior Windows	Caulking - NAD	200 l.f.	Misc	NF II	Good	Low	0
5906-37	Flashing (homogeneous area # 11)	Roof by fireplace	White/Black Flashing - NAD	6 l.f.	Misc	NF II	Good	Low	1
5906-38	Flashing (homogeneous area # 11)	Roof by fireplace	White/Black Flashing - 5% CH	6 l.f.	Misc	NF II	Good	Low	1

Sample ID#	Sample Description	Material Location	Percent & Type of Asbestos Detected (a)	Estimated Quantity	Type of ACM (b)	Friability (c)	Physical Condition	Potential for Disturbance	Response Rating
5906-39	Flashing (homogeneous area # 11)	Roof by fireplace	Black Flashing - NAD	6 l.f.	Misc	NF II	Good	Low	1

Table Key:

- (a) CH = Chrysotile; AM = Amosite; CR = Crocidolite; AN = Anthophyllite; AC = Actinolite; NAD = NAD = No Asbestos Detected
- (b) Misc = Miscellaneous; TSI = Thermal Systems Insulation
 (c) F = Friable; NF I = Non-Friable Category I; NF II = Non-Friable Category II

Appendix:

Appendix D: Photographs

Survey Photographs



Grout (White) (Under Ceramic Tile): Great Room; Qty: 705



IHST Project Number: 17800

Peel and Stick Flooring (White/Blue Pattern) and Mastic (Brown): West Storage Office, Kitchen; Qty: 240 s.f.



Peel and Stick Flooring (Wood Grain) and Mastic (Brown): Entry, SE Office; Qty: 250 s.f.



Popcorn Ceiling Texture: SE Office, Women's Restroom, Hall by Kitchen, Upstairs; Qty: 2200 s.f.



Popcorn Ceiling Texture: SE Office, Women's Restroom, Hall by Kitchen, Upstairs; Qty: 2200 s.f.



Wall Texture: N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall; Qty: 5700 s.f.

Appendix:

Appendix E: Transmission Electron Microscopy Lab Results



EMSL Analytical, Inc.

107 Haddon Ave., Westmont, NJ 08108

Phone: (856) 858-4800

Fax: (856) 858-4960 Email: westmontasblab@EMSL.com

Attn: Seth Schultz

The Louis Berger Group, Inc. 199 Water Street, 23rd Floor

New York, NY 10038

Project: AACM PHASE 3 FT WORTH

Customer ID:

LOUI56

Customer PO:

JG500P5

Received:

11/05/07 9:10 AM

EMSL Order:

040727570

Fax:

Phone: (212) 612-7900

EMSL Proj:

AACM PHASE 3 FORT WORTH

Analysis Date:

12/7/2007

Report Date:

12/7/2007

Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES	% TOTAL ASBESTOS
5906-16 FLOORING 040727570-0016	ENTRY	Brown Non-Fibrous Homogeneous	, 100.0	None	No Asbe	estos Detected
5906-16 MASTIC 040727570-0016A	ENTRY	Yellow Non-Fibrous Homogeneous	100.0	None	No Asbe	estos Detected
5906-17 FLOORING 040727570-0017	S.E. OFFICE	Brown Non-Fibrous Homogeneous	100.0	None	No Asbe	estos Detected
5906-17 MASTIC 040727570-0017A	S.E. OFFICE	Yellow Non-Fibrous Homogeneous	100.0	None	No Asbe	estos Detected
5906-18 FLOORING 040727570-0018	S.E. OFFICE	Brown Non-Fibrous Homogeneous	100.0	None	No Asbe	estos Detected
5906-18 MASTIC 040727570-0018A	S.E. OFFICE	Yellow Non-Fibrous Homogeneous	100.0	None	No Asbe	estos Detected
5906-19 FLOORING 040727570-0019	WEST STORAGE OFFICE	Gray Non-Fibrous Homogeneous	100.0	None	No Asbe	estos Detected
5906-19 MASTIC 040727570-0019A	WEST STORAGE OFFICE	Yellow Non-Fibrous Homogeneous	100.0	None	No Asbe	estos Detected
5906-20 FLOORING 040727570-0020	WEST STORAGE OFFICE	Blue Non-Fibrous Homogeneous	100.0	None	No Asbe	estos Detected

μ	VI.	ıa	ıy:	SI(S)	

Derrick Young (24)

Stephen Siegel, CIH, Laboratory Manager or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.



EMSL Analytical, Inc.

107 Haddon Ave., Westmont, NJ 08108

Phone: (856) 858-4800

Fax: (856) 858-4960

Email: westmontasblab@EMSL.com

Attn: Seth Schultz

The Louis Berger Group, Inc. 199 Water Street, 23rd Floor

New York, NY 10038

Project: AACM PHASE 3 FT WORTH

Customer ID:

LOUI56

Customer PO:

JG500P5

Received:

11/05/07 9:10 AM

EMSL Order:

040727570

Fax:

Phone: (212) 612-7900

EMSL Proj:

AACM PHASE 3 FORT WORTH

Analysis Date:

12/7/2007

Report Date:

12/7/2007

Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS		STOS PES	% TOTAL ASBESTOS
5906-20 MASTIC 040727570-0020A	WEST STORAGE OFFICE	Yellow Non-Fibrous Homogeneous	100.0	None		No Asbes	tos Detected
5906-21 FLOORING 040727570-0021	KITCHEN	Blue Non-Fibrous Homogeneous	100.0	None		No Asbes	tos Detected
5906-21 MASTIC 040727570-0021A	KITCHEN	Yellow Non-Fibrous Homogeneous	100.0	None		No Asbes	tos Detected
5906-22 TILE 040727570-0022	KITCHEN	Gray Non-Fibrous Homogeneous	100.0	None		No Asbes	tos Detected
5906-22 MASTIC 040727570-0022A	KITCHEN	Yellow Non-Fibrous Homogeneous	100.0	None		No Asbes	tos Detected
5906-23 TILE 040727570-0023	KITCHEN	Tan Non-Fibrous Homogeneous	100.0	None		No Asbes	tos Detected
5906-23 MASTIC 040727570-0023A	KITCHEN	Yellow Non-Fibrous Homogeneous	100.0	None	<1%	Chrysotile	<1
5906-24 TILE 040727570-0024	KITCHEN	Gray Non-Fibrous Homogeneous	100.0	None		No Asbes	tos Detected
5906-24 MASTIC 040727570-0024A	KITCHEN	Yellow Non-Fibrous Homogeneous	100.0	None		No Asbes	tos Detected

Anaiyst	(S)	
Derrick	Young (24)	

Stephen Siegel, CIH, Laboratory Manager or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.



EMSL Analytical, Inc.

107 Haddon Ave., Westmont, NJ 08108

Phone: (856) 858-4800

Fax: (856) 858-4960

Email: westmontasblab@EMSL.com

Attn: Seth Schultz

The Louis Berger Group, Inc. 199 Water Street, 23rd Floor

New York, NY 10038

Customer ID:

LOUI56

Customer PO:

JG500P5

Received:

11/05/07 9:10 AM

EMSL Order:

040727570

101K, 141 10000

Project: AACM PHASE 3 FT WORTH

Fax:

Phone: (212) 612-7900

EMSL Proj:

AACM PHASE 3 FORT WORTH

Analysis Date:

12/7/2007

Report Date:

12/7/2007

Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES	% TOTAL ASBESTOS
5906-31 040727570-0031	FLORESCENT LIGHTS	Black Non-Fibrous Homogeneous	100.0	None	No Asbe	estos Detected
5906-32 040727570-0032	FLORESCENT LIGHTS	Black Non-Fibrous Homogeneous	100.0	None	No Asbe	estos Detected
5906-33 040727570-0033	FLORESCENT LIGHTS	Black Non-Fibrous Homogeneous	100.0	None	No Asbe	stos Detected
5906-34 040727570-0034	EXTERIOR WINDOWS	Gray Non-Fibrous Homogeneous	100.0	None	No Asbe	estos Detected
5906-35 040727570-0035	EXTERIOR WINDOWS	Gray Non-Fibrous Homogeneous	100.0	None	No Asbe	estos Detected
5906-36 040727570-0036	EXTERIOR WINDOWS	Gray Non-Fibrous Homogeneous	100.0	None	No Asbe	estos Detected

м	ıaı	/SI	(5)	
			٠,	
	_			

Derrick Young (24)

Stephen Siegel, CIH, Laboratory Manager

or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

2

Project:

AACM PHASE 3 FORT WORTH

Lab Sample: 040727570-0016

AACM PHASE 3 FT WORTH Cust Sample: 5906-16 FLOORING Order: 040727570 flooring Prepped by ___ Date 12/6/07 gray brown Sample Description Special Instructions | EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com.The email subject line must have (in ord 6104 INITIAL: A: Weight of crucible Calculations 10.0905 Weight of crucible & sample B: % Organics [(W1-W2)x100]/W1: W1 WEIGHT OF SAMPLE (B-A) W1: POST ASH Weight of crucible & sample C: % Acid Soluble [(W2-W3)x100]/W1: 3505 W2 WEIGHT OF RESIDUE W2: 4655 D: POST ACID Weight of petri dish & filter 5030 E: Weight of sample & petri dish % % Residue (W3x100)/W1: 0375 WEIGHT OF RESIDUE (E-D) ,W3 W3: **TEM Non Friable Analysis PLM Non Friable Analysis** Due Date: 12/7/2007 9:10:00 AM Due Date: Amount Asbestos Fiber Type(s) Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount % Optical Properties SAED Picture #: Spectrum #: Ε Indices М 1. Wavy 1. Yes 1. Low 1. Parallel Grid Box: 07-0371 2. Straight 2. Med 2. Symmetric 2. No 3. Specify 3. High 3. Oblique **Final TEM Result Final PLM Result** Non-asbestos Asbestos Asbestos Non-asbestos Non Fibrous Non Fibrous % % **Fibrous** Type Type **Fibrous** Other Other Chrysotile Chrysotile Glass Amosite Amosite Mineral Wool Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic **Tremolite** Other Tremolite Actinolite Wollastonite Actinolite Wollastonite Crocidolite Crocidolite Analyst: Date:

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Project:

AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH

Lab Sample: 040727570-0016A Cust Sample: 5906-16 MASTIC

Order: 040727570 yellow mastr Prepped by B ___ Date 12 6 07 Sample Description Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com.The email subject line must have (in ord 2894 INITIAL: Weight of crucible Calculations Weight of crucible & sample % Organics [(W1-W2)x100]/W1: W1 WEIGHT OF SAMPLE (B-A) W1: 3275 POST ASH Weight of crucible & sample % Acid Soluble [(W2-W3)x100]/W1: 0381 W2 WEIGHT OF RESIDUE W2: POST ACID Weight of petri dish & filter D: E: Weight of sample & petri dish % Residue (W3x100)/W1: W3 WEIGHT OF RESIDUE (E-D) 0339 W3: **TEM Non Friable Analysis PLM Non Friable Analysis** Due Date: 12/7/2007 9:10:00 AM Due Date: Asbestos Fiber Type(s) Amount Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Optical Properties SAED Picture #: Spectrum #: Indices Р В Ε M 1. Wavv 1. + 1. Yes 1. Low 1. Parallel Grid Box: 07-037/ 2. Straight 2. Symmetric 2. Med 2. No 3. Specify 3. High 3. Oblique **Final TEM Result** Final PLM Result Asbestos Non-asbestos Asbestos Non-asbestos % Non Fibrous % % Fibrous Non Fibrous Туре Fibrous Туре Other Chrysotile Glass Other Chrysotile Amosite Amosite Mineral Wool Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic Tremolite Other Tremolite Other Actinolite Actinolite Wollastonite Crocidolite Crocidolite _____ Date: __

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Order: 040727570

Project:

AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH Lab Sample: 040727570-0017 Cust Sample: 5906-17 FLOORING

gray brown flooring Prepped by _____ Date 12(6/07 Sample Description Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com. The email subject line must have (in ord 10 . 1172 INITIAL: Weight of crucible Calculations B: 6860 Weight of crucible & sample % Organics [(W1-W2)x100]/W1: W1 WEIGHT OF SAMPLE (B-A) W1: 4918 C: Weight of crucible & sample POST ASH % Acid Soluble [(W2-W3)x100]/W1: W2 WEIGHT OF RESIDUE W2: 4686 D: POST ACID Weight of petri dish & filter 4795 Weight of sample & petri dish 0109 % Residue (W3x100)/W1: W3 WEIGHT OF RESIDUE (E-D) **PLM Non Friable Analysis TEM Non Friable Analysis** Due Date: 12/7/2007 9:10:00 AM Due Date: Asbestos Fiber Type(s) Amount Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount **Optical Properties** SAED Picture #: Spectrum #: Indices М 1. Wavy 1. Yes 1. Low 1. Parallel 2. Straight 2. Symmetric 2. Med 2. No 3. Specify 3. High 3. Oblique Final PLM Result **Final TEM Result** Asbestos Non-asbestos Asbestos Non-asbestos % Non Fibrous Type Fibrous Non Fibrous % Type % **Fibrous** Glass Other Chrysotile Glass Other Chrysotile Amosite Amosite Mineral Wool Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic Tremolite Tremolite Other Actinolite Actinolite Wollastonite Wollastonite Crocidolite Crocidolite Date: Analyst: .

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Project:

AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH Lab Sample: 040727570-0017A Cust Sample: 5906-17 MASTIC

Order: 040727570 yellon mastic Prepped by ______ Date __12/6/07 Sample Description Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com. The email subject line must have (in ord 4332 INITIAL: Weight of crucible Calculations 6684 Weight of crucible & sample B: % Organics [(W1-W2)x100]/W1: W1 WEIGHT OF SAMPLE (B-A) W1: POST ASH Weight of crucible & sample C: % Acid Soluble [(W2-W3)x100]/W1: W2 WEIGHT OF RESIDUE W2: POST ACID Weight of petri dish & filter D: Weight of sample & petri dish 693 % Residue (W3x100)/W1: W3 WEIGHT OF RESIDUE (E-D) **TEM Non Friable Analysis PLM Non Friable Analysis** Due Date: 12/7/2007 9:10:00 AM Due Date: Asbestos Fiber Type(s) Amount Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount ____ Optical Properties SAED Picture #: Spectrum #: Е Indices М 1. Wavy 1.+ 1. Yes 1. Low 1. Parallel Grid Box: 07-037/ П 2. Straight 2. Med 2. Symmetric 2. No 3. Specify 3. High 3. Oblique **Final PLM Result Final TEM Result** Asbestos Non-asbestos Non-asbestos Asbestos Type Fibrous Non Fibrous Type **Fibrous** Non Fibrous % Chrysotile Glass Other Chrysotile Glass Other Amosite Amosite Mineral Wool Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic Tremolite Tremolite Actinolite Wollastonite Actinolite Wollastonite Crocidolite Crocidolite Analyst: .

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Order: 040727570

Project:

AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH Lab Sample: 040727570-0018 Cust Sample: 5906-18 FLOORING

gray brown floo (ing Prepped by US Date 12/6/07 Sample Description Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com. The email subject line must have (in ord 5164 INITIAL: Weight of crucible A: Calculations 10.0883 Weight of crucible & sample B: % Organics [(W1-W2)x100]/W1: W1 WEIGHT OF SAMPLE (B-A) POST ASH Weight of crucible & sample % Acid Soluble [(W2-W3)x100]/W1: W2 WEIGHT OF RESIDUE W2: 4632 POST ACID Weight of petri dish & filter D: Weight of sample & petri dish E: % Residue (W3x100)/W1: WEIGHT OF RESIDUE (E-D) 0693 W3 **TEM Non Friable Analysis PLM Non Friable Analysis** Due Date: 12/7/2007 9:10:00 AM Due Date: Asbestos Fiber Type(s) Amount Amount Asbestos Fiber Type(s) Non-asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Optical Properties SAED Picture #: Spectrum #: Indices М В Е 1. Wavy 1. + 1. Parallel 1. Yes 1. Low Grid Box: 07-037/ 2. Symmetric 2. Straight 2. Med 2. No. 3. Specify 3. High 3. Oblique **Final TEM Result** Final PLM Result Non-asbestos Asbestos Non-asbestos Asbestos Fibrous Non Fibrous % **Fibrous** Non Fibrous % Туре Type Other Chrysotile Glass Other Chrysotile Amosite Amosite Mineral Wool Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic Tremolite Tremolite Other Other Actinolite Wollastonite Actinolite Wollastonite Crocidolite Crocidolite Date: Analyst: Analyst:

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Order: 040727570

Project:

AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH Lab Sample: 040727570-0018A Cust Sample: 5906-18 MASTIC

Yellow mustre Prepped by _____ Date 12/6/07 Sample Description Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com. The email subject line must have (in ord 8703 INITIAL: Weight of crucible Calculations 9301 B: Weight of crucible & sample % Organics [(W1-W2)x100]/W1: W1 WEIGHT OF SAMPLE (B-A) W1: 8980 POST ASH Weight of crucible & sample % Acid Soluble [(W2-W3)x100]/W1: 0287 W2 WEIGHT OF RESIDUE W2: POST ACID Weight of petri dish & filter Weight of sample & petri dish E: % Residue (W3x100)/W1: W3 WEIGHT OF RESIDUE (E-D) W3: **TEM Non Friable Analysis PLM Non Friable Analysis** Due Date: Due Date: 12/7/2007 9:10:00 AM Asbestos Fiber Type(s) Amount Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount **Optical Properties** SAED Picture #: Spectrum #: Indices М 1. Wavy 1. + 1. Yes 1. Low 1. Parallel 2. Straight 2. Med 2. Symmetric 2. No 3. Specify 3. High 3. Oblique **Final TEM Result Final PLM Result** Asbestos Non-asbestos Asbestos Non-asbestos Type Fibrous Non Fibrous Type **Fibrous** Non Fibrous Chrysotile Glass Other Chrysotile Glass Other Mineral Wool Amosite Amosite Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic Tremolite Other Tremolite Other Actinolite Wollastonite Actinolite Wollastonite Crocidolite Crocidolite _____ Date: ____ Analyst: .

EPA 600/R-93/116 AACM PHASE 3 FORT WORTH Lab Sample: 040727570-0019 Client: The Louis Berger Group, Inc. Project: AACM PHASE 3 FT WORTH Cust Sample: 5906-19 FLOORING Order: 040727570 flooring Date 12/6/07 Prepped by Sample Description Special Instructions | EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com.The email subject line must have (in ord 9945 INITIAL: Weight of crucible Calculations 5093 Weight of crucible & sample % Organics [(W1-W2)x100]/W1: W1 WEIGHT OF SAMPLE (B-A) W1: 9 3146 POST ASH Weight of crucible & sample C: % Acid Soluble [(W2-W3)x100]/W1: 3195 W2 **WEIGHT OF RESIDUE** W2: POST ACID Weight of petri dish & filter D: 4961 Weight of sample & petri dish E: 6311 % Residue (W3x100)/W1: WEIGHT OF RESIDUE (E-D) W3 W3: **TEM Non Friable Analysis PLM Non Friable Analysis** Due Date: 12/7/2007 9:10:00 AM Due Date: Asbestos Fiber Type(s) Amount Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Non-asbestos Fiber Type(s) Amount Amount Optical Properties SAED Picture #: Spectrum #: Indices Ε М 1. Wavy 1. Yes 1. Low 1. Parallel Grid Box: 2. Straight 2. Med 2. Symmetric 2. No 3. Specify 3. Oblique 3. High **Final PLM Result Final TEM Result** Asbestos Non-asbestos Asbestos Non-asbestos % % Non Fibrous % Туре Non Fibrous Туре **Fibrous Fibrous** Other Glass Other Chrysotile Chrysotile Amosite Amosite Mineral Wool Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic Tremolite Tremolite Other Other Actinolite Actinolite Wollastonite Wollastonite Crocidolite Crocidolite

Analyst:

Date:

Analyst:

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Project:

AACM PHASE 3 FORT WORTH

Lab Sample: 040727570-0019A

AACM PHASE 3 FT WORTH Cust Sample: 5906-19 MASTIC Order: 040727570 yellow mastre Prepped by Date 12/6/07 Sample Description Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com.The email subject line must have (in ord 4667 INITIAL: Weight of crucible Calculations Weight of crucible & sample B: % Organics [(W1-W2)x100]/W1: W1 WEIGHT OF SAMPLE (B-A) W1: 5213 POST ASH Weight of crucible & sample C: % Acid Soluble [(W2-W3)x100]/W1: 0546 WEIGHT OF RESIDUE W2: 8 4662 POST ACID Weight of petri dish & filter D: 5030 Weight of sample & petri dish WEIGHT OF RESIDUE (E-D) % Residue (W3x100)/W1: W3 0368 PLM Non Friable Analysis **TEM Non Friable Analysis** Due Date: Due Date: 12/7/2007 9:10:00 AM Asbestos Fiber Type(s)_ Amount Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Non-asbestos Fiber Type(s) Amount Amount _____ Optical Properties SAED Picture #: _____ Spectrum #: ____ Indices М 1. Wavy 1. Yes 1. Low 1. Parallel 2. Straight 2. Med 2. Symmetric 2. No 3. Specify 3. High 3. Oblique **Final PLM Result Final TEM Result** Asbestos Non-asbestos Asbestos Non-asbestos Type % Fibrous Non Fibrous % Type % Fibrous Non Fibrous Glass Other Glass Chrysotile Chrysotile Other Amosite Mineral Wool Amosite Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic Tremolite Other Tremolite Actinolite Actinolite Wollastonite Wollastonite Crocidolite Crocidolite

_____ Date: ____

Analyst: _

EPA 600/R-93/116

Client: The Louis Berger Group, Inc. Project: AACM PHASE 3 FORT WORTH Lab Sample: 040727570-0020 AACM PHASE 3 FT WORTH Cust Sample: 5906-20 FLOORING Order: 040727570 _ Date __12/6/07 Sample Description white/blue flooring Prepped by Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com. The email subject line must have (in ord 5614 INITIAL: Weight of crucible Calculations Weight of crucible & sample B: % Organics [(W1-W2)x100]/W1: W1 WEIGHT OF SAMPLE (B-A) W1: POST ASH Weight of crucible & sample C: % Acid Soluble [(W2-W3)x100]/W1: 3501 W2 WEIGHT OF RESIDUE W2: POST ACID Weight of petri dish & filter Weight of sample & petri dish 03/9 % Residue (W3x100)/W1: W3 **WEIGHT OF RESIDUE (E-D) TEM Non Friable Analysis PLM Non Friable Analysis** Due Date: 12/7/2007 9:10:00 AM Due Date: Asbestos Fiber Type(s) Amount Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount 2 **Optical Properties** SAED Picture #: Spectrum #: Indices М 1. Wavy 1. + 1. Yes 1. Low 1. Parallel п Grid Box: 07 - 0372. Straight 2. Med 2. Symmetric 2. No 3. Specify 3. High 3. Oblique Final PLM Result **Final TEM Result** Asbestos Non-asbestos **Asbestos** Non-asbestos Type Fibrous Non Fibrous Type **Fibrous** Non Fibrous % Chrysotile Glass Other Chrysotile Glass Other Amosite Amosite Mineral Wool Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic **Tremolite** Other Tremolite Actinolite Wollastonite Actinolite Wollastonite Crocidolite Crocidolite

1

Analyst: .

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Order: 040727570

Project:

AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH

Lab Sample: 040727570-0020A Cust Sample: 5906-20 MASTIC

__ Date 12/6/07 Vellow mustiv Prepped by Sample Description Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com. The email subject line must have (in ord 3101 INITIAL: Weight of crucible Calculations 3456 Weight of crucible & sample % Organics [(W1-W2)x100]/W1: 0855 W1 WEIGHT OF SAMPLE (B-A) 3592 POST ASH Weight of crucible & sample C: % Acid Soluble [(W2-W3)x100]/W1: 0491 W2 WEIGHT OF RESIDUE W2: POST ACID Weight of petri dish & filter Weight of sample & petri dish 0298 % Residue (W3x100)/W1: W3 WEIGHT OF RESIDUE (E-D) **TEM Non Friable Analysis PLM Non Friable Analysis** Due Date: 12/7/2007 9:10:00 AM Due Date: Asbestos Fiber Type(s) Amount Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Optical Properties SAED Picture #: Spectrum #: Е Indices В М 1. Wavy 1. + 1. Yes 1. Low 1. Parallel Grid Box: 07-037/ 2. Straight 2. Med 2. Symmetric 2. No 3. Specify 3. High 3. Oblique Final PLM Result Final TEM Result Asbestos Non-asbestos Asbestos Non-asbestos Type Fibrous Non Fibrous Type % **Fibrous** Non Fibrous % Chrysotile Glass Other Chrysotile Glass Other Amosite Amosite Mineral Wool Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic Tremolite Tremolite Actinolite Wollastonite Actinolite Wollastonite Crocidolite Crocidolite Analyst: _

EPA 600/R-93/116 Client: The Louis Berger Group, Inc. AACM PHASE 3 FORT WORTH Project: Lab Sample: 040727570-0021 AACM PHASE 3 FT WORTH Order: 040727570 Cust Sample: 5906-21 FLOORING white/blue flooring Prepped by __ Date __12/6/07 Sample Description Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com.The email subject line must have (in ord 7221 INITIAL: Weight of crucible Calculations 2788 Weight of crucible & sample B: % Organics [(W1-W2)x100]/W1: 5567 W1 WEIGHT OF SAMPLE (B-A) 0663 POST ASH Weight of crucible & sample C: % Acid Soluble [(W2-W3)x100]/W1: 344) W2 WEIGHT OF RESIDUE W2: 4720 POST ACID Weight of petri dish & filter D: 5004 Weight of sample & petri dish E: 0284 % Residue (W3x100)/W1: W3 WEIGHT OF RESIDUE (E-D) W3: **PLM Non Friable Analysis TEM Non Friable Analysis** Due Date: Due Date: 12/7/2007 9:10:00 AM Asbestos Fiber Type(s) Amount Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount **Optical Properties** SAED Picture #: Spectrum #: Indices Р М В 1. Wavy 1. Yes 1. + 1. Low 1. Parallel Grid Box: 07-037/ 2. Straight 2. Med 2. Symmetric 2. No 3. Specify 3. High 3. Oblique Final PLM Result **Final TEM Result** Asbestos Non-asbestos Asbestos Non-asbestos Fibrous Non Fibrous **Fibrous** % Type % Type % Non Fibrous Glass Glass Chrysotile Other Chrysotile Other Tr

								<u> </u>		
Analyst:		Date	:		Analyst:	Dy	,	Dat	e: <u>/2/5</u>	1/07
Crocidolite					Crocidolite					
Actinolite	Wollastonite				Actinolite		Wollastonite			
Tremolite	Other			·	Tremolite		Other			
Anthophyllite	Synthetic				Anthophyllite		Synthetic			
Amosite	Mineral Wool				Amosite		Mineral Wool			

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Order: 040727570

Project:

AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH Lab Sample: 040727570-0021A Cust Sample: 5906-21 MASTIC

Yellow mastic Prepped by __ Date _ \ 2/6/07 Sample Description Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com.The email subject line must have (in ord 3941 INITIAL: Weight of crucible Calculations 4430 Weight of crucible & sample B: % Organics [(W1-W2)x100]/W1: W1 WEIGHT OF SAMPLE (B-A) W1: 4221 POST ASH Weight of crucible & sample C: % Acid Soluble [(W2-W3)x100]/W1: W2 WEIGHT OF RESIDUE W2: 4651 POST ACID Weight of petri dish & filter Weight of sample & petri dish % Residue (W3x100)/W1: 0149 W3 WEIGHT OF RESIDUE (E-D) **TEM Non Friable Analysis PLM Non Friable Analysis** Due Date: 12/7/2007 9:10:00 AM Due Date: Asbestos Fiber Type(s) Amount Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Non-asbestos Fiber Type(s) Amount **Optical Properties** Spectrum #: SAED Picture #: Ε Indices М В 1. Wavy 1. + 1. Yes 1. Low 1. Parallel Grid Box: 07-037/ 2. Straight 2. Med 2. Symmetric 2. No 3. Specify 3. High 3. Oblique Final PLM Result Final TEM Result Asbestos Non-asbestos Asbestos Non-asbestos Type Fibrous Non Fibrous Type **Fibrous** Non Fibrous Chrysotile Glass Other Chrysotile Glass Other Amosite Amosite Mineral Wool Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic Tremolite Other **Tremolite** Other Actinolite Wollastonite Actinolite Wollastonite Crocidolite Crocidolite Analyst:

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Order: 040727570

Project:

AACM PHASE 3 FORT WORTH

AACM PHASE 3 FT WORTH

Lab Sample: 040727570-0022 Cust Sample: 5906-22 TILE

gray the ____ Date \2667 Prepped by Sample Description Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com.The email subject line must have (in ord 4476 INITIAL: Weight of crucible Calculations 9364 Weight of crucible & sample B: % Organics [(W1-W2)x100]/W1: W1 WEIGHT OF SAMPLE (B-A) POST ASH Weight of crucible & sample C: % Acid Soluble [(W2-W3)x100]/W1: 3696 W2 WEIGHT OF RESIDUE W2: 4636 POST ACID Weight of petri dish & filter Weight of sample & petri dish 2493 % Residue (W3x100)/W1: W3 WEIGHT OF RESIDUE (E-D) **TEM Non Friable Analysis PLM Non Friable Analysis** Due Date: 12/7/2007 9:10:00 AM Due Date: Asbestos Fiber Type(s) Amount Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount **Optical Properties** SAED Picture #: Spectrum #: Indices М В 1. Wavy 1. + 1. Yes 1. Low 1. Parallel Grid Box: 07-037/ П 2. Straight 2. Symmetric 2. Med 2. No 3. Specify 3. High 3. Oblique Final PLM Result **Final TEM Result** Asbestos Non-asbestos Asbestos Non-asbestos Type Fibrous Non Fibrous Type **Fibrous** Non Fibrous % Chrysotile Glass Other Chrysotile Glass Other Amosite Amosite Mineral Wool Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic Tremolite Other Tremolite Actinolite Wollastonite Actinolite Wollastonite Crocidolite Crocidolite Analyst:

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Order: 040727570

Project:

AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH Lab Sample: 040727570-0022A Cust Sample: 5906-22 MASTIC

B Vellow mastic Prepped by ____ Date ___12/6/07 Sample Description Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com.The email subject line must have (in ord 8 233 INITIAL: Weight of crucible Calculations 9485 Weight of crucible & sample B: % Organics [(W1-W2)x100]/W1: 1252 W1 WEIGHT OF SAMPLE (B-A) W1: 8840 POST ASH Weight of crucible & sample C: % Acid Soluble [(W2-W3)x100]/W1: W2 0607 WEIGHT OF RESIDUE W2: 4618 POST ACID Weight of petri dish & filter D: Weight of sample & petri dish E: 5052 % Residue (W3x100)/W1: W3 WEIGHT OF RESIDUE (E-D) 6434 **PLM Non Friable Analysis TEM Non Friable Analysis** Due Date: Due Date: 12/7/2007 9:10:00 AM Asbestos Fiber Type(s) Asbestos Fiber Type(s) **Amount** Amount Non-asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount **Optical Properties** SAED Picture #: Spectrum #: Indices м s В 1. Wavy 1 + 1. Yes 1. Low 1. Parallel Grid Box: 07-037/ 2. Straight 2. Med 2. Symmetric 2 -2 No 3. Specify 3. High 3. Oblique Final PLM Result **Final TEM Result** Asbestos Non-asbestos Asbestos Non-asbestos Non Fibrous Type **Fibrous** Non Fibrous % Туре % **Fibrous** % Chrysotile Glass Other Chrysotile Glass Other Amosite **Amosite** Mineral Wool Mineral Wool Anthophyllite Synthetic Anthophyllite Synthetic Tremolite Other Tremolite Other Actinolite Wollastonite Actinolite Wollastonite Crocidolite Crocidolite _____ Date: <u>____</u>_ _____ Date: _____ Analyst: Analyst:

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Order: 040727570

Project:

AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH Lab Sample: 040727570-0023 Cust Sample: 5906-23 TILE

(S Date 146/07 tan tile Prepped by Sample Description Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com.The email subject line must have (in ord 2947 INITIAL: Weight of crucible Calculations Weight of crucible & sample B: % Organics [(W1-W2)x100]/W1: W1 WEIGHT OF SAMPLE (B-A) W1: POST ASH Weight of crucible & sample C: % Acid Soluble [(W2-W3)x100]/W1: W2 WEIGHT OF RESIDUE W2. D: POST ACID Weight of petri dish & filter Weight of sample & petri dish % Residue (W3x100)/W1: 1373 W3 WEIGHT OF RESIDUE (E-D) **TEM Non Friable Analysis** PLM Non Friable Analysis Due Date: 12/7/2007 9:10:00 AM Due Date: Asbestos Fiber Type(s) Amount Asbestos Fiber Type(s) Amount Amount Non-asbestos Fiber Type(s) Non-asbestos Fiber Type(s) Amount **Optical Properties** SAED Picture #: Spectrum #: Indices М 1. Wavy 1. + 1. Yes 1. Low 1. Parallel Grid Box: 07-037/ 2. Straight 2. Med 2. Symmetric 2. -2. No 3. Specify 3. High 3. Oblique **Final PLM Result Final TEM Result** Asbestos Non-asbestos Asbestos Non-asbestos Non Fibrous Type % **Fibrous** Non Fibrous % Type % **Fibrous** % Glass Other Glass Other Chrysotile Chrysotile Amosite Mineral Wool Amosite Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic Tremolite Tremolite Other Other Actinolite Actinolite Wollastonite Wollastonite Crocidolite Crocidolite _____ Date: _ Date: _____

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Project:

AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH

Lab Sample: 040727570-0023A Cust Sample: 5906-23 MASTIC

Order: 040727570

yellow mastre

Prepped by

() Date 12/6/07

Sample Descript	tion		yellow	Mas	tru	Prepped b	/		<i>ולו</i>	_ Date	146	10.)
Special Instruction	ons E	XTRANET	-PDF copy	of the invo	ice for every	job be ser	t to invoicing@I	ouisberger	r.com.The	email subj	ject line must l	nave (in or
Weig	-	cible cible & sam SAMPLE (E	ple	A: C B: C	1.595 7.689 .094	6	% Organics [(W1-	Calcula W2)x100]/W				%
W2 WEI	GHT OF	cible & sam RESIDUE ri dish & filte nple & petri	er	C: W2: D: E:	1 . 6376 . 642 3 . 464 3 . 4878	3 7	% Acid Soluble [(\	W2-W3)x100	p]/W1: _	· · · · · ·		<u></u> %
·		RESIDUE (w3:	. 613		% Residue (W3x1	00)/W1:	-	•		%
	PLM	Non Fri	able Anal	ysis				TEN	l Non Fria	able Ana	ilysis	
Due Date:							ue Date: 12/7	7/2007 9:10	D:00 AM			
Asbestos Fiber Ty			Amount				Asbestos Fiber	Type(s)	2	Amount	<u> </u>	
					%		<u> </u>	1	<u> </u>			% %
Non-asbestos Fibe	er Type((s)	Amount				lon-asbestos Fi	ber Type(s	s)	Amount		,
1					%	5						%
2		 			%]]						%
-		Optical Pro		1	1] ;	SAED Picture #:	2/	<u>/</u> 7	Specti	rum #:	
	/avy	<u>S</u> 1. + 2	1. Yes 2. No	B 1. Low 2. Med 3. High	E 1. Parallel 2. Symmetric 3. Oblique	7	Grid Box:		,	F	Row:	7_
			!	·								
Asbestos	Fi	inal PLM		n-asbestos	•	- -	Asbestos	Fina	al TEM Re		-asbestos	
Type	%	Fibrous		Non Fib		┪╽┢	Гуре	%	Fibrous	%	Non Fibrous	%
Chrysotile		Glass		Other		┤	Chrysotile		Glass		Other	
Amosite		Mineral Woo	ol			7 7	Amosite		Mineral Wool			
Anthophyllite		Synthetic] [Anthophyllite		Synthetic			
Tremolite		Other					Tremolite		Other			
Actinolite		Wollastonite				╛╽┟	Actinolite		Wollastonite			
Crocidolite							Crocidolite					L
Analyst:				Date:		Ar	alyst:	Di	y	Da	te: 12/-	7/07

EPA 600/R-93/116 Client: The Louis Berger Group, Inc. AACM PHASE 3 FORT WORTH Project: Lab Sample: 040727570-0024 AACM PHASE 3 FT WORTH Order: 040727570 Cust Sample: 5906-24 TILE _ Date 12/6/07 Prepped by Sample Description Special Instructions EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com.The email subject line must have (in ord 2254 INITIAL: Weight of crucible Calculations 8176 Weight of crucible & sample B: % Organics [(W1-W2)x100]/W1: W1 WEIGHT OF SAMPLE (B-A) W1: POST ASH Weight of crucible & sample C: % Acid Soluble [(W2-W3)x100]/W1: W2 WEIGHT OF RESIDUE W2: POST ACID Weight of petri dish & filter D: Weight of sample & petri dish % Residue (W3x100)/W1: W3 WEIGHT OF RESIDUE (E-D) 3056 **PLM Non Friable Analysis TEM Non Friable Analysis** Due Date: 12/7/2007 9:10:00 AM Due Date: Asbestos Fiber Type(s) Amount Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount ____ % Optical Properties SAED Picture #: Spectrum #: Indices 1. Wavy 1. Yes 1. Low 1. Parallel Grid Box: 07-037/ 2. Straight 2. Med 2. Symmetric 2. No 3. Specify 3. High 3. Oblique **Final PLM Result Final TEM Result** Asbestos Non-asbestos Asbestos Non-asbestos Туре % **Fibrous** Non Fibrous % Type % **Fibrous** Non Fibrous % Glass Chrysotile Other Chrysotile Glass Other Amosite Amosite Mineral Wool Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic **Tremolite** Other Tremolite Actinolite Wollastonite Actinolite Wollastonite Crocidolite Crocidolite

Analyst:

Date:

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Order: 040727570

Project:

AACM PHASE 3 FORT WORTH

AACM PHASE 3 FT WORTH

Lab Sample: 040727570-0024A Cust Sample: 5906-24 MASTIC

Sample Description	yellow mastre	_ Prepped by	CB	_ Date _	12/6/07
Special Instructions	EXTRANET-PDF copy of the invoice for eve	ery job be sent to in	nvoicing@louisberger.com.The e	mail subje	ect line must have (in ord

r :														
INITIAL:	Weight of c	rucible		,	4: <u></u>	9.	4949			Calcu	lations			
	Weight of c	rucible & sa	mple	ı	3:	<u>9.</u>	6120			•••				
W1	WEIGHT O	F SAMPLE	(B-A)	1	N1:		199		% Organics [(W1-	w2)x100]	/W1:		•	%
POST ASH	Weight of c	rucible & sa	mple	(D:	<u>9.</u>	5538	<u>8</u> _	O/ Asid Caluble 104	VO 14/0)4	001004			%
W2	WEIGHT O	F RESIDUE	į	1	N2:		058	9	% Acid Soluble [(V	V2-VV3)X1	00]/VV1:		<u> </u>	— ⁷⁰
POST ACID	Weight of p	etri dish & fi	lter	(D:	8.	466	2						
	Weight of s	ample & pet	ri dish	E	<u> </u>	8.	5075	_						
W3	WEIGHT O	F RESIDUE	(E-D)	١	N3:		0413		% Residue (W3x1	00)/W1:			•	%
	PL	M Non Fi	riable	e Analy	/sis			_	 	TE	M Non Fri	iable An	alysis	
Due Date:	7.5								Duo Data: 12/7					
Due Date.									Due Date: 12/7	/2007 9:	10:00 AM			
														ĺ
Asbestos Fib	er Type(s)		Ar	nount					Asbestos Fiber T	ype(s)		Amount		
_										11)				
1	:								1	11				%
2							%		2					%
Non-asbestos	Eibor Tyn	0(0)	Λ						Non-asbestos Fil	or Type	(a)	Amount		
14011-45065105	s riber i yp	e(S)	All	nount					Non-aspesios Fil	ет туре	(5)	Amount		
1							%		1					%
2							%							%
								,						—— [%]
	T.:	Optical P					"	∤ ∤	SAED Picture #:			Spect	rum #:	
Indices	М	s	Р		В	E		1						
ii .	Wavy Straight	1. +	1. Y		1. Low	- 1	arallel		October 1	7-0	37/	_	_ 77	
	3. Specify	2	2. N	lo	2. Med 3. High		ymmetric blique		Grid Box: 0	/ <u>U</u> ,	<i>3//</i>	ı	Row: //	
	, ,	<u> </u>	1		o. riigii		Dilque	1						
		Final PLM	Resu]		Fi	nal TEM Re	sult		
Asbesto					-asbesto		r	1	Asbestos			Nor	n-asbestos	
Туре	%		s	%	Non Fib	orous	%	1	Туре	%	Fibrous	%	Non Fibrous	%
Chrysotile		Glass			Other			1	Chrysotile		Glass		Other	
Amosite		Mineral Wo	ool						Amosite		Mineral Wool			
Anthophyllite	•	Synthetic							Anthophyllite		Synthetic			
Tremolite		Other							Tremolite		Other			
Actinolite		Wollastonit	te			_			Actinolite		Wollastonite			
Crocidolite				_	<u> </u>		L]	Crocidolite					
Analyst:				D	ate:				Analyst:	D	Ŋ	Da	ite: 12/7	107

EPA 600/R-93/116

Client: The Louis Berger Group, Inc. Order: 040727570

Project: AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH

Lab Sample: 040727570-0031

Sample Des	cription _	ble	nell	musti	2	Pı	repped	by	(B	_ Date	12/6/	07
Special Instr	uctions [EXTRANE1	F-PDF copy	of the invo	oice for	every jo	b be se	ent to invoicing@l	ouisberge	r.com.The	email subj	ect line must h	ave (in or
INITIAL:	Weight of cr	ucible		A: '	9.0	6968	·]		Calcula	ntions			
	_	ucible & sam	ıple			2899	_		Calcula	1110118			
	_	SAMPLE (I	•	W1:		5931		% Organics [(W1-	W2)x100]/\	V1: _	•		%
POST ASH	Weight of cr	ucible & sam	ple	C:	0.0	121							
W2	WEIGHT OI	RESIDUE		W2:	. 3	1242		% Acid Soluble [(V	V2-W3)x10	0]/W1: _	•		%
POST ACID	Weight of pe	etri dish & filt	er	D:		1654							
	Weight of sa	ample & petri	dish	E:	8.7	1839							
W3	WEIGHT OF	RESIDUE (E-D)	W3:	. ∂	1882		% Residue (W3x1	00)/W1:	-	•		%
	PLI	VI Non Fri	able Ana	lysis					TE	/I Non Fri	able Ana	lysis	
Due Date:								Due Date: 12/7	/2007 9:1	0:00 AM			
Asbestos Fibe	er Type(s)		Amount					Asbestos Fiber 1	Type(s)	1	Amount		
1						%		1/					%
2						%		2					%
Non-asbestos	Fiber Type	e(s)	Amount					Non-asbestos Fil	ber Type(s)	Amount		
1						%		1			*		<u> </u>
2						%		2					%
		Optical Pro	perties					SAED Picture #:			Spectr	um #:	
Indices	M.	s	Р	В	E						5,550.		
	 Wavy Straight Specify 	1. +	1. Yes 2. No	1. Low 2. Med 3. High	1. Par 2. Syn 3. Obl	nmetric		Grid Box: <u></u> <u> </u>	7-03	37/	R	Now: \mathcal{J})
							-						
Asbesto		Final PLM		n-asbestos	s		-	Asbestos	Fir	al TEM Re		-asbestos	
Туре	%	Fibrous		Non Fib		%		Туре	%	Fibrous	%	Non Fibrous	%
Chrysotile		Glass		Other				Chrysotile		Glass		Other	
Amosite		Mineral Wo	ol					Amosite		Mineral Wool			
Anthophyllite		Synthetic						Anthophyllite		Synthetic			
Tremolite		Other						Tremolite		Other			
Actinolite		Wollastonite	· .					Actinolite		Wollastonite			
Crocidolite			ļ				L	Crocidolite					
Analyst:				Date:			Α	.nalyst:	Dy		Dat	e: 12/7	-/07

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Project:

AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH

Lab Sample: 040727570-0032

Cust Sample: 5906-32

Order	040727570
Oluci.	040121310

black Mastra

Prepped by

CB

12/6/67

Sample Descrip	otion	blac	-12	mastor	Pre	oped by		(<u> </u>	Date	12/6/6	7
Special Instruct	ions E	XTRANET-P	DF сору с	of the invoice	e for every job	be sent to in	voicing@lo	ouisberge	r.com.The	email sub	ject line must h	ave (in or
We	•	cible & sample		: 9	. 6384	- - % Orga	anics [(W1-V	Calcula 0/2)x100]/V		•		%
POST ASH We	ight of crud		v	/2:	7519 1479	- - % Acid -	Soluble [(W	/2-W3)x10	0]/ W 1: _			%
We	ight of sam	ri dish & filter nple & petri dis RESIDUE (E-D			. 4642 . 5781 . 1139	- - % Resi	due (W3x10	00)/W1:	-	<u>.</u>		%
	PLM	Non Friab	le Analy	sis				TEN	M Non Fri	able Ana	ılysis	
Due Date:						Due Da	ite: 12/7/	/2007 9:1	0:00 AM			
Asbestos Fiber T	ype(s)	A	mount		%	Asbest	os Fiber T	Type(s)		Amount		%
2					%	2 _						%
Non-asbestos Fib	per Type(s) A	mount			Non-as	bestos Fil	oer Type(s)	Amount		
2					% %	1 -						% %
-		Optical Prope	rties			CAED	Picture #:			Specti	44.	
Indices M		S P		В	E	SAED	Picture #.			Specu	rum #	
II 2. S	Straight		No	2. Med 2	1. Parallel 2. Symmetric 3. Oblique	Grid Bo	рх: <u>О</u>	7-0C	37/	F	Row: γ	2_
	Fi	nal PLM Re	sult					Fir	nal TEM Re	sult		
Asbestos				-asbestos		I ├ ──	sbestos				-asbestos	I
Type	%	Fibrous	%	Non Fibro	us %	Туре	411-	%	Fibrous	%	Non Fibrous	%
Chrysotile		Glass	-	Other		Chryso			Glass	_	Other	
Amosite Anthophyllite		Mineral Woot	+	*	-	Amosi			Mineral Wool	ļ		
Tremolite	1	Synthetic	+	-	_	Tremo	-		Synthetic Other	+		
Actinolite	<u> </u>	Wollastonite	+	 		Actino			Wollastonite	+		
Crocidolite	 					Crocid						$\ \cdot\ $
Analyst:	1		C	ate:	· · · · · · · · · · · · · · · · · · ·	Analyst:		Da	<i>Y</i>	Da	te: 12/7	-/07

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Order: 040727570

Project:

AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH

Lab Sample: 040727570-0033

Sample Des	scription		<u> </u>	acl	Λ	lust	12	Prepr	ed by			B	Date	12/6/	ó7
Special Inst	ructions	EXT							e sent to	invoicing@I	ouisberge	r.com.The	email subj	ect line must h	ave (in or
INITTIAL.	10/aiaht at		-1-		Δ.	8	.86	74							
INITIAL:	Weight of			-1-	A:		. 38				Calcula	itions			
1014	Weight of				B:			86	% (Organics [(W1-	W2)x100]/V	V1: _			%
W1	WEIGHT		•	•	W1:	8	. 994								
POST ASH	Weight of		•	ple	C:				% /	Acid Soluble [(V	V2-W3)x10	0]/W1: _	•		%
W2	WEIGHT				W2:		<u>.127</u>								
POST ACID	Weight of	-			D:	$-\overline{\lambda}$. 46								-
	Weight of		•		E:	8	(.57		0/ 1	Daaidua (IA/2v4	00)0044.				0/
W3	WEIGHT	OF RE	ESIDUE (I	E-D)	W3:		. 110	<u> </u>	% !	Residue (W3x1	00)/001:	-	<u> </u>		— [%]
	Р	LM N	Non Fri	able An	alysis						TEN	/ Non Fri	able Ana	lysis	
Due Date:									Due	Date: 12/7	7/2007 9:1	0:00 AM			
Asbestos Fib	er Type(s	s)		Amoun	t				Ast	estos Fiber "	Type(s)		Amount		:
1								%	1	$-\gamma$	1 <i>D</i>				%
2								%	2						%
		, ,							Nor	achostos Ei	har Type/	٥١	Amount		
Non-asbestos	s Fiber I y	/pe(s))	Amount					NOI	n-asbestos Fi	nei Type(5)	Amount		
1								%	1						%
2								%	2						%
		C	Optical Pro	perties					SA	ED Picture #:			Spectr	um #:	
Indices	м	s		Р	В		E		0, (Ороон		
1	1. Wavy	1.	+	1. Yes	1. Lo	w	1. Parallel			~	M. no	7.1		\wedge	
П	2. Straight	2.	_	2. No	2. M	I	2. Symmet		Grid	Box: <u>U</u>	7-00	3 T1	F	low:	
	3. Specify				3. H	gh	3. Oblique								
	·	Fina	al PLM I	Result				\neg	Г		Fin	al TEM Re	sult		
Asbest	os			1	lon-as	oestos				Asbestos			Non	-asbestos	
Туре		%	Fibrous	%	No.	on Fibro	ous %		Тур	e	%	Fibrous	%	Non Fibrous	%
Chrysotile			Glass		01	her			Ch	ysotile		Glass		Other	
Amosite			Mineral Woo	1	_			_		osite		Mineral Wool			
Anthophyllite	9		Synthetic					_	Ant	hophyllite		Synthetic			
Tremolite			Other					_	Tre	molite		Other			
Actinolite			Wollastonite					_	Act	inolite		Wollastonite			
Crocidolite									Cro	cidolite					
Analyst:		#			Date	:			Analy	/st:	Dy	<i>}</i>	Dat	te: 12/7	67

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

Order: 040727570

Project:

AACM PHASE 3 FORT WORTH AACM PHASE 3 FT WORTH

Lab Sample: 040727570-0034

Sample Des	scription	9-0	ay	ca	.ulk		Pre	pped	by	U)	· •	Date	_12/6/0	۶7
Special Inst	ructions	EXTRANET	ſ-PDF	copy o	of the inv	oice fo	r every job	be s	ent to invoicing@	@louisberge	er.com.The	email sub	ject line must h	ave (in o
INITIAL: W1 POST ASH	WEIGHT OF	rucible rucible & sam F SAMPLE (I	B-A)	E	A: B: W1:	9.	1818 7063 5245 5791		% Organics [(W		W1: _			%
W2 POST ACID W3	Weight of sa	F RESIDUE etri dish & filte ample & petri F RESIDUE (dish	[E		8. 8.y	3973 4605 4936 0331	- - -	% Acid Soluble % Residue (W3	. ,)0]/W1: _ -	·		% %
	PLI	M Non Fri	able	Analy	 /sis				 	TE	M Non Fria	able Ana	alysis	
Due Date:									Due Date: 12	2/7/2007 9:1			•	
Asbestos Fib				nount			%		Asbestos Fibe	r Type(s)		Amount		%
2	•						%		2					%
Non-asbestos 1	Fiber Type	(s)	Am	ount			% %		Non-asbestos 12		(s)	Amount		% %
		Optical Pro												
Indices I	M 1. Wavy 2. Straight	S 1. +	P 1. Ye	es	B 1. Low 2. Med	- 1	arallel		SAED Picture	#:)7-0;	37/		rum #:	
-	3. Specify	2	2. No		3. High		blique		<u> </u>				1000	
Asbesto		Final PLM	Resu		n-asbesto	ns			Asbestos		nal TEM Re		n-asbestos	
Туре	- %	Fibrous	П	%	Non Fi	 -	%		Туре	%	Fibrous	%	Non Fibrous	- %
Chrysotile		Glass	\neg		Other				Chrysotile		Glass	1	Other	
Amosite		Mineral Woo	ol le		 				Amosite	1	Mineral Wool	+		
Anthophyllite	,	Synthetic	$\neg \uparrow$		<u> </u>				Anthophyllite		Synthetic	†		
Tremolite		Other	一						Tremolite		Other	†		
Actinolite		Wollastonite	\Box						Actinolite		Wollastonite	1		
Crocidolite			\Box		1				Crocidolite					
Analyst:					Date:			,	Analyst:	Di	1	Da	te: 12/7/ 22	<u>67</u>

EPA 600/R-93/116

Client: The Louis Berger Group, Inc. Project: AACM PHASE 3 FORT WORTH

Order: 040727570

AACM PHASE 3 FT WORTH

Lab Sample: 040727570-0035

Sample Des	scription _		jay	carlk		Pre	pped	by		<u>'</u> B	_ Date	17/6/0	7
Special Inst	ructions	EXTRANE	Γ-PDF co	py of the in	voice fo	r every job	be s	ent to invoicing@le	ouisberge	er.com.The	email subj	ect line must h	ave (in or
INITIAL:	Weight of cr			A:	8.	9433	-		Calcula	ations			
W1	_	ucible & san F SAMPLE (B: W1:	<u>9.</u>	<u>5498</u> 5955	-	% Organics [(W1-	/V2)x100]/	W1: _			%
POST ASH	Weight of cr		nple	C: W2;	9.	4093 464 740		% Acid Soluble [(V	V2-W3)x10	00]/W1: _	· · · · ·		%
	Weight of pe		er	D:	<u>8.</u>	4629	- -	,					
W3		ample & petr		E: W3:	₹ <u>.</u>	5116 0487	-	% Residue (W3x1	00)/ W 1:		•		%
	PH	M Non Fr	iable Ar	alvsis			+		TEI	W Non Fri	able Ana	lvsis	
Due Date:			abio Ai	ulyolo				Due Date: 12/7	/2007 9:1			.,,	
Duc Date.								Duo Buto. 12/1	72007 5.1	0.007111			
Asbestos Fib	er Type(s)		Amou	nt				Asbestos Fiber 1	Type(s)		Amount		
1						%		1 \mathcal{I}	1 <u>D</u>				%
2						%		2					%
Non-asbestos	Fiber Type	e(s)	Amour	t				Non-asbestos Fil	ber Type	s)	Amount		
1						%		1					%
2						%		2					%
		Optical Pr	operties					SAED Picture #:			Spectr	um #:	
Indices	М	s	Р	В	E			0			5,550		
	Wavy Straight Specify	1. +	1. Yes 2. No	1. Low 2. Med 3. High	2. S	arallel ymmetric blique		Grid Box:	7-03	37/	R	ow:	
			Danula				۱,		F:		14		
Asbest		Final PLM		Non-asbest	os		\mathbb{H}	Asbestos		nal TEM Re		-asbestos	
Туре	%	Fibrous			ibrous	%		Туре	%	Fibrous	%	Non Fibrous	%
Chrysotile		Glass		Other				Chrysotile		Glass	1	Other	
Amosite		Mineral Wo	ol					Amosite		Mineral Wool			
Anthophyllite	Э	Synthetic						Anthophyllite		Synthetic			
Tremolite		Other						Tremolite		Other			
Actinolite		Wollastonit	e					Actinolite		Wollastonite			
Crocidolite								Crocidolite					
Analyst:				Date: _			,	Analyst:	Di	<i>l</i>	Dat	e: <u>/2/7/</u>	07_

EPA 600/R-93/116

Client: The Louis Berger Group, Inc.

11

Project:

AACM PHASE 3 FORT WORTH

Lab Sample: 040727570-0036

AACM PHASE 3 FT WORTH Order: 040727570 Cust Sample: 5906-36 gray calk ____ Date 12/6/07 Prepped by Sample Description Special Instructions | EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com.The email subject line must have (in ord 0605 INITIAL: Weight of crucible Calculations 5776 Weight of crucible & sample B: % Organics [(W1-W2)x100]/W1: 5165 W1 WEIGHT OF SAMPLE (B-A) W1: 4646 POST ASH Weight of crucible & sample C: % Acid Soluble [(W2-W3)x100]/W1: YOU W2 WEIGHT OF RESIDUE W2: POST ACID Weight of petri dish & filter Weight of sample & petri dish % Residue (W3x100)/W1: W3 WEIGHT OF RESIDUE (E-D) **TEM Non Friable Analysis PLM Non Friable Analysis** Due Date: Due Date: 12/7/2007 9:10:00 AM Asbestos Fiber Type(s) Amount Asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount Non-asbestos Fiber Type(s) Amount % Optical Properties SAED Picture #: Spectrum #: Indices М Ε 1. Wavy 1. + 1. Yes 1. Parallel 1. Low Grid Box: 07-037/ 2. Straight 2. Med 2. Symmetric 2. No 3. Specify 3. High 3. Oblique **Final PLM Result Final TEM Result** Asbestos Non-asbestos Asbestos Non-asbestos Type **Fibrous** Non Fibrous Type **Fibrous** Non Fibrous % Chrysotile Glass Other Chrysotile Glass Other Amosite Mineral Wool Amosite Mineral Wool Anthophyllite Anthophyllite Synthetic Synthetic Tremolite Other Tremolite Other Actinolite Wollastonite Actinolite Crocidolite Crocidolite __ Date: Date: _ Analyst:

Order:	7275				-		orth Phare 3		Cus	b Sample: st Sample:		INK
Sample De	scription	TLE	E WH	ITE		Prep	ped by		$\mathcal{C}_{\mathcal{S}}$	Date	12/6	107
Special Ins	tructions											
INITIAL:	Weight of	crucible		A:				Cala	ulations			
	-	crucible & sar	nple	B:				Calc	ulations			
W1		F SAMPLE	-	W1:			% Organics [(W	1-W2)x10	0]/W1		•	%
POST ASH	Weight of o	crucible & sar	nple	C:	•							
W2	WEIGHT C	F RESIDUE		W2:			% Acid Soluble [(W2-W3):	x100]/W1		•	%
POST ACID	Weight of p	etri dish & fil	ter	D:				<u></u>				
	Weight of s	ample & petr	i dish	E:								
W3	WEIGHT O	F RESIDUE	(E-D)	W3:			% Residue (W3x	100)/W1:			•	%
	PL	M Non Fr	iable Ana	lysis				T	EM Non Fr	iable An	alysis	······································
Due Date:							Due Date:					
Asbestos Fib	er Type(s)		Amount				Asbestos Fiber	Type(s)		Amount		
1					%	%	1	ν_{-}				%
2					9	%	2					%
Non-asbestos	Fiber Typo	e(s)	Amount	···	%	6	Non-asbestos F	iber Typ	e(s)	Amount		%
2					%	6	2					%
		Optical Pro	perties		· · · · · · · · · · · · · · · · · · ·]	SAED Picture #:			Spectr	um #:	
Indices	M	S	Р	В	E	-				·		
1	Wavy Straight Specify	1. +	1. Yes 2. No	1. Low 2. Med 3. High	Parallel Symmetric Oblique	С	Grid Box:	7-03	37/	R	low: P	
		inal PLM I						Fi	inal TEM Re	suit		
Asbesto	s %	Fibrous		n-asbestos			Asbestos				asbestos	
Type Chrysotile	- **	Glass	%	Non Fibr	rous %	4	Type Chrysotile	%	Fibrous.	%	Non Fibrous	%
Amosite		Mineral Wool	- 	Carer		+ $+$	Amosite		Glass	-	Other	
Anthophyllite		Synthetic	-	 		-	Anthophyllite		Mineral Wool Synthetic	 		
Tremolite		Other				1	Tremolite	<u> </u>	Other	+		
Actinolite		Wollastonite				1	Actinolite		Wollastonite			
Crocidolite							Crocidolite			11		
Analyst:			[)ate:		-	Analyst:	Dy		Date	: 12/7 1	/07

EMSL Analytical, Inc., 107 Haddon Ave., Westmont, NJ 08108

INTERNAL CHAIN OF CUSTODY

12/6/2007 2:08:59 PM

12/0/2007 2.00.0011

Attn:

Seth Schultz

The Louis Berger Group, Inc. 199 Water Street, 23rd Floor

New York, NY 10038

Order ID: 040727570

Customer ID
Customer PO:

LOUI56

Justomer PO

JG500P5

Received:

11/05/07 9:10 AM

Fax:

Phone: (917) 715-5731

EMSL Order:

040727570

Project: AACM PHASE 3 FT WORTH

EMSL Project ID:

AACM PHASE 3 FORT WORTH

Test:	TEM EPA NOB	<u>Matrix</u> B	Bulk <u>TAT:</u>	24 Hour	<u>Qty:</u> 24
Acct S	Sts: SI	Slsprsn: tnardozz	i <u>Logged:</u> <u>Sample</u> <u>Condition:</u>	dpullman Acceptable Unacceptable	<u>Date:</u> 11/5/2007
□ Exe	empt from prep charg	e		Comments CL 13/16 ©	NS @ 12/7/6-
☐ Exe	empt from lab opening	g fee	Prepped:	<u> </u>	Date: 12/6
☐ Exe	empt from layer/alique	ot charges	Analyzed:	Dy	Date: 2/4/07
			<u>Data Entry</u>	: Dry	Date: 12/7/07
			Screened:	Ch	Date: 12/7/87
0	.		<u>Mailed:</u>		Date: 12/7/07
Specia	al Instructions			-//	

EXTRANET-PDF copy of the invoice for every job be sent to invoicing@louisberger.com.The email subject line must have (in order) the Project Manager / Louis Berger Project Number / "EMSL" / EMSL Order Number.

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
040727570	040727570-0016	5906-16 FLOORING	ENTRY	12/7/2007 9:10:00 AM
040727570	040727570-0016A	5906-16 MASTIC	ENTRY	12/7/2007 9:10:00 AM
040727570	040727570-0017	5906-17 FLOORING	S.E. OFFICE	12/7/2007 9:10:00 AM
040727570	040727570-0017A	5906-17 MASTIC	S.E. OFFICE	12/7/2007 9:10:00 AM
040727570	040727570-0018	5906-18 FLOORING	S.E. OFFICE	12/7/2007 9:10:00 AM
040727570	040727570-0018A	5906-18 MASTIC	S.E. OFFICE	12/7/2007 9:10:00 AM
040727570	040727570-0019	5906-19 FLOORING	WEST STORAGE OFFICE	12/7/2007 9:10:00 AM
040727570	040727570-0019A	5906-19 MASTIC	WEST STORAGE OFFICE	12/7/2007 9:10:00 AM
040727570	040727570-0020	5906-20 FLOORING	WEST STORAGE OFFICE	12/7/2007 9:10:00 AM
040727570	040727570-0020A	5906-20 MASTIC	WEST STORAGE OFFICE	12/7/2007 9:10:00 AM
040727570	040727570-0021	5906-21 FLOORING	KITCHEN	12/7/2007 9:10:00 AM

INTERNAL CHAIN OF CUSTODY

12/6/2007 2:09:00 PM

Order ID: 040727570

Attn:

Seth Schultz

The Louis Berger Group, Inc. 199 Water Street, 23rd Floor

New York, NY 10038

Customer ID Customer PO: LOUI56 JG500P5

Received:

11/05/07 9:10 AM

Fax:

Phone: (917) 715-5731

EMSL Order:

040727570

Project: AACM PHASE 3 FT WORTH

EMSL Project ID: AACM PHASE 3 FORT WORTH

040727570	040727570-0021A	5906-21 MASTIC	KITCHEN	12/7/2007 9:10:00 AM
040727570	040727570-0022	5906-22 TILE	KITCHEN	12/7/2007 9:10:00 AM
040727570	040727570-0022A	5906-22 MASTIC	KITCHEN	12/7/2007 9:10:00 AM
040727570	040727570-0023	5906-23 TILE	KITCHEN	12/7/2007 9:10:00 AM
040727570	040727570-0023A	5906-23 MASTIC	KITCHEN	12/7/2007 9:10:00 AM
040727570	040727570-0024	5906-24 TILE	KITCHEN	12/7/2007 9:10:00 AM
040727570	040727570-0024A	5906-24 MASTIC	KITCHEN	12/7/2007 9:10:00 AM
040727570	040727570-0031	5906-31	FLORESCENT LIGHTS	12/7/2007 9:10:00 AM
040727570	040727570-0032	5906-32	FLORESCENT LIGHTS	12/7/2007 9:10:00 AM
040727570	040727570-0033	5906-33	FLORESCENT LIGHTS	12/7/2007 9:10:00 AM
040727570	040727570-0034	5906-34	EXTERIOR WINDOWS	12/7/2007 9:10:00 AM
040727570	040727570-0035	5906-35	EXTERIOR WINDOWS	12/7/2007 9:10:00 AM
040727570	040727570-0036	5906-36	EXTERIOR WINDOWS	12/7/2007 9:10:00 AM

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Š	CAMORE #			I urnaround Time: ()Immediate	Time: ()	Immediate	()Rush ()Normal	lormal
AREA #		SAMPLE DESCRIPTION	LOCATION	ESTIMATED QUANTITY (SF/LF/ea.)	TYPE F of NFI	I (GS/D/SD)	POTENTIAL FOR DISTIBBANCE	RESPONSE
	1-9065	Wall texture	V. Wall CHAY		N SE	9 =		
	2-7065	Wall textup	SEOFFICE	1000	SWEI	cp		
••••	5406-3	Wall texture	W. Wall Great Rm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Swfu	Salahar (2)		
	\$-1065	Wall Fexture	W.E OFFice		5 WE,	200 ACT C		
_	8406-5	Wall texture	l š		 	and the second		
7	9-9065	POPCORN Ceiling Texture	S.E. OFFICE	2200				
2	2406-7	Popuse Cerling Toxtue	5.2 o F Fice			3 4	1 -	
7	8-1065	POPEORN Celling Texture	يا ا			a 4		
7	6-9065	Poplorn Ceiling Texture	hall By Eitouen			ے ا	01 M	
4	21-9065	· ·	UASTRURS		*	ο <u>Α</u>	OV -5	
Released by:					-			
Released by:	B	lay Bray UN 11/2/07	0%	C. Miller	NA PR	ā tu	Date/Time:	
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- mail	address: arge	-musu at nyglene & Sarety Technology, Inc. 2235 Keller -mail address: a rda@ind.com & Solvento	West Causellion To	972 478.7415 F.	Fax 972.478.7615		TDH License #10-0145	-0145
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Α.	に が な・・	語が対象がある。これに対象をある。	Marian 2003 1850 W. V. 197					

 No. 10.	IHST PROJECT #: PROJECT TITLE:			COLUMN DE LES CO	0-1-11	<u>r</u>	0 <u>4</u> 0	040727570	
£	PROJECT ADDRESS;	5906 Boca Retorn		Bramlett	Les Les	2-01	0h05-01	:INSPECTOR/TDH#	豊.
		Fort Worth Texas		j	ļ				<u> </u>
HOMO	O SAMPLE #			Intriarour	od .lime		mediate	l umaround Time: ()Immediate ()Rush ()Normal	Vormal
AREA #		SAMPLE DESCRIPTION	LOCATION	ESTIMATED QUANTITY (SF/LF/ea.)	ट्रे ७ ठू	P E E	CONDITION (G/G/SD)	POTENTIAL FOR DISTURBANCE	RESPONSE
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M	21-7065	S906-12 Joint Connd/wall texture	Mechanical Ru.		3	1 1 1	ડ હ	.	
. Υ	8406-13	Jointemad / wall texture	NE Way Great em		1	ļ)) (
m	5906-14	Sgob-14 Joint Cand/wall texture	UE OFFICE		3		b <		
n	84.90	S906-15 Joint Cmod / wall texture	Upstaires		1.	ξ .	9 (
T	5906-16	5906-16 Wood Grain/Pool 4			1	220	S		
7	5906-17		J. V. C.	.20		II Q		7 14	
	5901-10	Wood Grain		- 1756 - 1757 - 1757 - 1757 - 1757	z	WEI	⊼(:	J	
	0,000	Wood Grain	S. E. OFF 190	-	ξ	ØF.	ි: ධ		
2	5906-19	5906-19 While Blue tertern Pect Stic Flooring	West storage offic	240	ξ	EAG		9 1 <u>2</u> 3	
7	5906-20				ξ	NFI	A		
Releas	Released by:	Halle Brant H	Agus) Received by:						

TDH License #10-0145 Date/Time: Date/Time; Fax 972.478.7615 Carrollton, TX 992 Kerelyed Dy: Received by: 2235 Keller Way 11/2/07 Date/Time; Industrial Hygiene & Safety Technology, Inc. June Same -mail address: greg@ihst.com Released by:

Page 2 of 4

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Sgob Boca ARTON Fort Worth Town	1 1	SAMPLE DESCRIPTION	White Blue Pattern feel Stick Flooring	12X12 Grey Floortile		4	S906-25 Grout Under Ceramic			a se	LIKE BAICK	FIRE Brick	FIRE Brick	Sum Wet Date/Tigne:
IHST PROJECT #: PROJECT TITLE: PROJECT ADDRESS:		SAMPLE # PHOTO #	12.7065	5906-25	5406-23	42-9065	5906-25	72-9065	7400	7.9010	87-9045	3906-29	5966-30	Released Din Bu
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Carrollton, TX 972.478.7415 Fax 972.478.7615 TDH License #10-0145 Out Date/Time: Received by: 20 2235 Keller Way 11/2/07 Date/Time: Industrial Hygiene & Safety Technology, Inc. -mail address: gr\u00e4g@lhst.com Released by:

Page 3 of 4

RESPONSE RATING ()Rush (XNormal TDH License #10-0145 04 07 27 5 7 0 DATE :INSPECTOR/TDH# :CLIENT/CONTACT ਰ DISTURBANCE POTENTIAL FOR Page_H Date/Trige; O Date/Time; 07 NOV 9: ر ر L J **ተ** ፣ ٠ 4.3 Turnaround Time: ()Immediate CONDITION (G/p/sp) LOUIS BENJER GROUP એ S P S b S S B S 972 478.7415 Fax 972,478,7615 Bramel 10-Soyo とずに びずら とすべ これる りたの と記 を下に カヤル VKI Seth Schultz 11-0-10-11 2384 \$ o \$ ξ ₹. Σ 2 ξ. ξ Ξ ξ Z QUANTITY (SF/LF/ea.) 2001E ESTIMATED T W 1. 479 -= = --= -2 ALLES BOOKERSON OF THE STANDERS Swapwy Floreseat Lights Carrollton, TX O) A Received by: Received by: LOCATION だれる 2235 Keller Way E-mail address: grdg@lhst.com. S.schults. @loog.br Date Time: 11/2/67 Date/Time: Texac 8 ton SAMPLE DESCRIPTION A Industrial Hygiene & Safety Technology, Inc. FORT WORTH Boco Send Peculis And Bulley Muy Sun 100 Flashing Flashing Flashing maste Cauk 5906 > <u>ن</u> س j PROJECT TITLE: PROJECT ADDRESS; 5906-33 IHST PROJECT #: 5906-32 5906-31 5906-36 5606-35 he-9065 37 86-7065 5406.39 SAMPLE # PHOTO# 5906-Released by: Released by: 日後 AREA 0 9 9 9 9 Q.

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AREA #	PHOTO #	SAMPLE DESCRIPTION	LOCATION	QUANTITY (SF/LF/ea.)	ğ o ğ	NF1	(G/D/SD)	POTENTIAL FOR DISTURBANCE	RESPONSE
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TDH License #10-0145 Page 4 of 4 7 Clarentine. Received from Chent 120607 972.478.7415 Fax 972.478.7615 证 E-mail address: greg@ihst.com- S.s.chultz @ lougs bruge Recorn Carrollton, TX O ya Received by: Received by: Send Recuits And Billing To Louis Berger 2235 Keller Way Date/Time: [1] 2 10 7 Date/Time; Industrial Hygiene & Safety Technology, Inc. Released by: Released by: